STIC-Biotech/ChemLib

160625

From:

Angell, Jon E

Sent: Tuesday, July 26, 2005 7:17 PM

To:

STIC-Biotech/ChemLib

Subject:

Sequence Database Search Request 09/888,326

SEARCH REQUEST FORM Scientific and Technical Information Center

Examiner# : 78697 Art Unit : 1635

Phone Number: 571-272-0756

Date: 7/26/05

Serial Number: 09/888,326 (Weiner, G. et al.) Mailbox & Bldg/Room Location: REMSEN 2C18

Results Format Preferred (circle): Paper

I would like to have a <u>standard and interference</u> search performed using the following SEQ. ID NO. from application: 09/888,326

SEQ ID NO: 729 (nucleic acid ~25 nucleotides long)

Please perform standard and oligomer search of the commercial and pending nucleic acid databases using SEQ ID NO: 729

you can contact me by telephone or email if you have any questions.

Thanks, Eric

9. Eric Augell Art Unit 1635 Office: REMSEN 2D20 mailbox: REM 2C18 571-272-0756

STAFF USE ONLY

Searcher:
Searcher Phone: 2Date Searcher Picked up: 12/08

Date Completed:
Searcher Prep/Rev. Time:
Online Time:

Type of Search

NA#:______ AA#:_____
Interference:____ SPDI:____
S/L:____ Oligomer:____
Encode/Transl:_____ Text:___
Structure#:_____ Text:___
Inventor:____ Litigation:___

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               GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| | Description | Aav60953 Unmethyla | Aav47689 Unmethyla | Aav27664 Immunosti | Aaz41936 IL-12 sec | Aav83715 Synthetic | Aav74252 CpG-N mot | Aaz61001 Nucleotid | Aaz48012 Immune re | Aaz47876 Immunosti | Aaa39265 CpG immun | Aaz47671 Parasitic | Aaa63588 Immune st | Aaa63586 Immune st | Aaa63598 Immune st | Aac60280 · Immunosti | Aaa93700 Unmethyla | Aac87240 CpG oligo | Aac87232 Immunosti | Aac87231 5'-amidat | Aac87233 Immunosti |
|-----------|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| SUMMARIES | ID | AAV60953 | AAV47689 | AAV27664 | AAZ41936 | AAV83715 | AAV74252 | AAZ61001 | AAZ48012 | AAZ47876 | AAA39265 | AAZ47671 | AAA63588 | AAA63586 | AAA63598 | AAC60280 | AAA93700 | AAC87240 | AAC87232 | AAC87231 | AAC87233 |
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| | * Query Match Length DB | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Query Match | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
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| 24 AAC87227 AaC87227 Methylate 24 AAC87234 Digoxigen 24 AAC87237 AaC87237 Eac87227 Eac87227 24 AAF87222 AAF5021 Immunosti 24 AAF8866 Cyc Xine 24 AAF8866 Cyc Xine 24 AAF88631 AAF8986 24 AAF89631 AAF89830 24 AAF89830 AAF89912 24 AAF89917 AAF89910 24 AAF89917 AAF89916 24 AAF89916 AAF89916 24 AAF89916 AAF89916 24 AAF89762 AAF89916 24 AAF89762 AAF89916 24 AAF89762 AAF89916 24 AAF89762 AAF89916 24 AAF89913 AAF89919 24 AAF89913 AAF89924 24 AAF89919 AAF89919 24 AAF89919 AAF89919 24 | ALIGNMENTS | DNA; 24 BP. | | entry) | ne-guanine dinucleotide containing oligonucleotide 4. | G dinucleotide; immune response; natural killer cell; esponse; Thi cytokine; hepatitis B. | | | | BWO-US004703. | -0040376P. | C LOBB RES INST. | , Krieg AM; | | eotides containing an unmethylated CpG dinucleotide - adjuvant with antigen, or nucleic acid encoding antigen nune response in subject. | ; 67pp; English. | containing at least 1 unmethylated CpG dinucleotide response in a subject by activating natural killer ing a subject's immune response from a Th2 to a Th1 ing monocytic and other cells to produce Th1 cytokines. ds containing at least 1 unmethylated CpG can be used as ifically to induce an immune response against an |
|--|------------|--------------------|-----------|------------|---|---|------------|---------------|--------------|---------------|---------------|---|-------------|----------------------|---|------------------|--|
| 221 23 24 24 10000 25 4 10000 26 5 24 27 7 24 10000 28 27 2 24 29 24 10000 33 3 3 2 2 4 41 10000 42 24 10000 43 24 10000 44 2 24 10000 45 24 10000 46 24 10000 47 24 10000 48 24 10000 49 24 10000 40 24 10000 40 24 10000 40 24 10000 41 24 10000 42 24 10000 43 24 10000 44 2 24 10000 45 24 10000 | | standard; | AAV60953; | 998 (first | Unmethylated cytosine | thylated Cp onse; Thl r | Synthetic. | WO9840100-A1. | 17-SEP-1998. | 6 ;866 | 997; 97US | (OTTA-) OTTAWA CIVIC (QIAG-) QIAGEN GMBH. (IOWA) UNIV IOWA RES | , Schorr J | WPI; 1998-520792/44. | ligonuc] 8, e.g. cing imm | re; Page 12 | C affect the immune response or cells or reducing to response by inducing to These nucleic acids or an adjuvant, specific |
| | | RESU AAV6 ID | ¥ ¥ | 253 | ž 23 i | \$ \$\$ | ¥8: | X & 3 | ₹ ₽\$ | ኝ <u>ሮ</u> ያ | € € \$ | S & & & : | XI | ž E | \$ & & & ; | X & 3 | \$888888 |

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          meningitis, neonatal sepsis, cystic fibrosis, inflammatory bowel disease and liver cirrhosis, Gram-negative pneumonia, Gram-negative abdominal abscess, haemorrhagic shock, disseminated intravascular coaqulation, or
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antigenic protein, and are used particularly for virally mediated
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                                                                                         100.0%; Score 24; DB 2; Length 24
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ive 0; Mismatches 0; Indels
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                                                      Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
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                   disorders, e.g. hepatitis B virus infection
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                                                                                                                                                                                                                                                                                                                                                                                                                Unmethylated CpG dinucleotide.
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                                                                                                           Similarity
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100.0%; Score 24; DB 2; Length 24; 100.0%; Pred. No. 0.0018;

Best Local Similarity

Query Match

Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New immunostimulatory nucleic acid molecules - which contain at least one unmethylated CpG dinucleotide, used for treating e.g. tumours, infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          oDNs activate lymphocytes in a subject and redirect a subject's immune response from a Th2 to a Th1 (e.g. by inducing monocytic cells and other cells to produce Th1 cytokines, including IL-12, IFN-gamma and GM-CSF). The ODNs can be used to treat or prevent an asthmatic disorder, autoimmune diseases, in desensitisation therapy, as an artificial adjuvant during antibody generation in a mammal such as a mouse or a
                                                                                                                                                                                                                                                                                                                         unmethylated CpG dinucleotide, activate; lymphocyte; immune response; Th2; Th1; cytokine; treatment; prevention; asthma; autoimmune disease, desensitisation therapy; artificial adjuvant; antibody generation; ss.
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Conservative C
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 Conservative
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(revised)

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Synthetic oligonucleotide with CpG-N motif #3.
                                                   AAV83715 standard; DNA; 24 BP.
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15-MAR-1999
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    RESULT 5
AAV83715
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequences AAZ41856-Z41949 are phosphorothioate CDG oligonucleotides which are used in the invention comprises stimulating an immune response in a subject comprising administering to a subject exposed to an antigen, an immunopotentiating cytokine and an immunostimulatory CpG oligonucleotide to induce a synergistic antigen specific immune response. The methods are useful for treating cancer by stimulating an antigen specific immune response against a cancer antigen. The methods can also be used to treat neoplastic disorders in humans, including but not limited to: sarcoma, carcinoma, fibroma, Lymphoma, melanoma, neuroblastoma, retinoblastoma, and glioma. The methods are also useful for treating infectious diseases.

CC arcinoma, fibroma, Lymphoma, melanoma, neuroblastoma, and fungal diseases, and glioma. The methods are also useful for treating infectious diseases.

CC arcinoma, fibroma, Lymphoma, melanoma, neuroblastoma, enthods may also be used to treat allergic diseases, e.g. asthma. The methods and compositions may also be applied to treat cancer and tumours in non human subjects, e.g. cats and dogs. Neoplasias affecting agricultural livestock may also be treated and include leukaemia, contagious diseases of sheep and goats caused by the bacterium couragious diseases of sheep and goats caused by the bacterium couragious diseases of sheep and goats caused by the bacterium couragious lung tumour of sheep caused by jaagsiekte may also be treated. CpG oligonucleotides enhance antibody dependent cellular cytotoxicity and antigen presenting cells, such as monocytes and macrophages. CpG oligonucleotides enhance antibody dependent cellular cytotoxicity and can be used as an adjuvant in
                                                                                                                                                                                                                                  CpG oligonucleotide; phosphorothioate; interleukin-12; IL-12; secretion; Muman PBMC; immune response; cancer; HTV; bacterial disease; asthma; neoplastic disorder; jaagsiekte; B cell; NK cell; ss; cytokine; antigen presenting cell; infection; allergic disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel synergistic combinations of immunostimulatory oligonucleotides and immunopotentiating cytokines are useful for stimulating the immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            conjunction with tumour antigens to protect against a tumour challenge
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                                                                                                                                                                                           IL-12 secretion inducing CpG oligonucleotide 81.
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                                                 AAZ41936 standard; DNA; 24 BP.
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                                                                                             AAZ41936;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Use of neutralising CpG and stimulating CpG motifs in DNA vectors - for enhancing the immunostimulatory effect of an antigen or enhancing the expression of a therapeutic polypeptide.
CpG-N motif; immunostimulation; antigen; CpG-S motif; immunisation; viral antigen; bacterial antigen; parasite; therapeutic; growth factor; toxins; tumour suppressor; cytokine; apoptotic protein; interferon; hormone; clotting factor; ligand; receptor; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence is used in the description of a method for enhancing the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               (OTTA-) OTTAWA CIVIC HOSPITAL LOEB RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Wu T;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 13; Page 86; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 TCGTCGTTTTGTCGTTTTGTCGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Schorr J,
                                                                                                                                                                                                                                                                                                                                                                           97US-0047209P.
                                                                                                                                                                                                                                                                                                                      98WO-US010408
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(QIAG-) QIAGEN GMBH.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Davis HL, Krieg AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1999-059712/05.
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                                                                                                                                                                                                                                                                                                                                                                           20-MAY-1997;
20-MAY-1997;
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Local St.
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                                                                                                                                                                                                                                                                                                                      20-MAY-1998;
                                                                                                                                                                                                                                                             26-NOV-1998
                                                                                                                                               Synthetic.
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Matches

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TCGTCGTTTTGTCGTTTTGTCGTT

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gingivitis; psoriasis; sepsis; ss.
                                  Synthetic.
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                                                                                                                                                                                                                                                                Krieg AM;
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV74237-V74253 are oligodeoxynucleotide (ODN) primers used to describe a method for enhanding the immunostimulactory effect of an antigen encoded by nucleic acid contained in a nucleic acid construct. The method involves determining the CpG-N and CpG-S motifs present in the construct, removing neutralising CpG (CpG-N) motifs and optionally inserting stimulatory CpG (CpG-S) motifs in the construct, thereby producing a nucleic acid construct having enhanced immunostimulatory efficacy. The method can be used for immunisation against viral antigens, e.g. from hepatitis B virus (HBV), bacterial antigens or an antigen derived from a parasite. They can also be used for expression of a therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             polypeptide, e.g. growth factors, toxins, tumour suppressors, cytokines, apoptotic proteins, interferons, hormones, clotting factors, ligands and
                                                                                    CpG-N motif; immunostimulation; antigen; CpG-S motif; immunisation; ODN; viral antigen; bacterial antigen; parasite; therapeutic; growth factor; toxin; tumour suppressor; cytokine; apoptotic protein; interferon; hormone; clotting factor; ligand; receptor; oligodeoxynucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Immunostimulatory, stereoisomer, CpG oligonucleotide, Th2, Th1, asthma, allergic reaction, allergen, cancer antigen, cancer; immunoinhibitory, inflammatory disease; inflammatory bowel disease, autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Use of neutralising CpG and stimulating CpG motifs in DNA vectors - fo enhancing the immunostimulatory effect of an antigen or enhancing the expression of a therapeutic polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nucleotide sequence of an immunostimulatory CpG oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 24; DB 2; Length 24; 100.0%; Pred. No. 0.0018; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  receptors. (Updated on 20-MAR-2003 to correct PA field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                               (OTTA-) OTTAWA CIVIC HOSPITAL LOEB RES INST.
(IOWA ) UNIV IOWA RES FOUND.
(QIAG-) QIAGEN GMBH.
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Schorr J,
                                                   SOS-ODN 2022 DNA.
                                                                                                                                                                                                                                                                                    98WO-US010408.
                                                                                                                                                                                                                                                                                                                  97US-0047209P.
97US-0047233P.
(revised)
(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Krieg AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-059712/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  apoptotic proteins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
les 24; Conserv
                                                                                                                                                                                                             WO9852581-A1
                                                                                                                                                                                                                                                                                 20-MAY-1998;
                                                                                                                                                                                                                                                                                                                                      20-MAY-1997;
                15-MAR-1999
                                                                                                                                                                                                                                                                                                                  20-MAY-1997;
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                                                   CpG-N motif
20-MAR-2003
                                                                                                                                                                                                                                              26-NOV-1998
                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Davis HL,
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AAZ60933-Z61015 represent immunostimulatory stereoisomers of CpG coligonucleotides. The sequences are derived from generic nucleic acid sequence. From which immunoinhibitory sequences may also be derived. The immunostimulatory nucleic acids can be co-administered with an antigen to induce an antigen-specific immune response. The immunostimulatory nucleic acids can also be used in methods for redirecting a subject's immune response from a Thl. to a Thl. for treating as the is immune response to contact with an allergen, for activating an immune cell, especially a lymphocyte or a dendritic cell expressing a cancer antigen or for treating cancer. The immunoinhibitory nucleic acid can be used to prevent in immune response, especially where the immune response in the subject is excessive due to having received an immune response in the subject is excessive due to having received an immune stimulating compound. The immunoinhibitory nucleic acid can be used to treat a subject having or risk of an inflammatory disease, especially inflammatory bowel disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Haematopoiesis; regulation; CpG oligonucleotide; phosphorothioate; immune remodeling; thrombopoiesis; anaemia; immune system; cancer; immune response; allergic reaction; infectious disease; asthma; thrombocytopaenia; immunohaemolytic disorder; genetic disorder; haemoglobinopathy; kidney failure; chronic inflammatory disorder; rheumatoid arthritis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Immunostimulatory and immunoinhibitory stereoisomers of CpG oligonucleotides useful for immunotherapy of cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 24; DB 3; Length 24; 100.0%; Pred. No. 0.0018;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           risk of an inflammatory disease, especially inflammat
autoimmune disease, gingivitis, psoriasis and sepsis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                          (CPGI-) CPG IMMUNOPHARMACEUTICALS INC.
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                                                                                                                                                            99WO-US017100,
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nes 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-195254/17.
WO200006588-A1.
                                                                                                                                                            27-JUL-1999;
                                                                                                                                                                                                                                           27-JUL-1998;
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                                                                              10-FEB-2000
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CpG; immunostimulatory; adjuvant; vaccine; metal salt; antiviral; antibacterial; antiprotozoal; antimalarial; anti-allergic; anticancer; immune response; infection; allergy; cancer; 88.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAA39265 standard; DNA; 24 BP
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                                                                                                                                                                                                                                                                                                         ince present incernation describes a mermodeling upon contracting the regulating immune system remodeling and for regulating haematopoiesis. The method for inducing an antigen-specific immune response an oN having a sequence including at least the formula (I); and (2) exposing the subject to an antigen at least 3 days after the ON is administered to the subject to an antigen at least 8 nucleotides. C and G = unmethylated, and X1 and ON = includes at least 8 nucleotides; C and G = unmethylated, and X1 and X2 = nucleotides. The method can be used for inducing an immune response CC against an antigen specific immune response; S; XICCX2 3' (I), where the CX = nucleotides. The method can be used for inducing an immune response CC alternations to an artigen such as cells, cell extracts, protebins, parasites and carbohydrate, viral extracts, viruses, bacteria, fungi, parasites and altergines. It can be used for treating an infectious allergic reaction. It can also be used for treating an infectious disease and asthum, as well as thrombocytopenic purpura, or resulting from accidental or therapeutic thrombocytopenic purpura, or resulting from accidental or therapeutic candiation exposure. It can also be used for treating anaemia such as flandation exposure. It can also be used for treating anaemia such as flandation exposure. It can also be used for treating anaemia such as flandation exposure, immunobaemolytic disorder, genetic disorders such as flandation exposure in also be used for treating anaemia and control control inflammatory disorder such as rheumatoid arthritis, or anaemia resulting from accidental or therapeutic radiation exposure. AAX48029 represent phosphorothicate CGG oligonucleotides used in the centuring exposure. AAX48029 represent invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mucosal immunity; immunostimulatory; CpG motif; immune response; antigen; allergic reaction; cancer; infectious disease; asthma; eczema; allergic rhinitis; coryza; hay fever; and opfunctivitis; bronchial asthma; urticaria; food allergy; acopic condition; mucosal delivery; ss.
                                                                                                                                                                                                                   Use of CpG containing oligonucleotides for, e.g. inducing an antigenspecific immune response.
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                                                                                                                                                                                                                                                                                                   present invention describes a method using CpG containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 24; DB 3; Length 24; 100.0%; Pred. No. 0.0018;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Indels
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                                                                                                           (CPGI-) CPG IMMUNOPHARMACEUTICALS GMBH. (CPGI-) CPG IMMUNOPHARMACEUTICALS INC.
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                                                                                                                                                                                                                                                                    Example 1; Page 66; 116pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAZ47876 standard; DNA; 24 BP.
                                  99WO-IB001285
                                                               98US-0085516P
                                                                              99US-00241653
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                                                                                                                                                                                       WPI; 2000-062261/05.
                                14-MAY-1999;
                                                             14-MAY-1998;
02-FEB-1999;
18-NOV-1999.
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AAZ47876
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08-OCT-1999;

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The present invention describes a method using CpG containing oligonucleotides (ONs) as adjuvants for inducing an immune response. The method for inducing a mucosal immune response (MIR) comprises: (1) administering to a mucosal immune response (MIR) comprises: (1) administering to a mucosal immune response (MIR) comprises: (1) and (2) exposing the subject to an including at least the formula (I); and (2) exposing the subject to an antigen to induce the MIR, where the antigen is not encoded in a nucleic acid vector: 5'XIXZCGXXX43' (I), where C and G = unmethylated, and X1, X2, X3 and X4 = nucleotides. The method can be used for treating a subject at risk of developing an allergic reaction, cancer or infectious cubject at risk of developing an allergic reaction, cancer or infectious chinitis or coryza, hay fever, conjunctivitis, bronchial asthma, crinitis or coryza, hay fever, conjunctivitis, bronchial asthma, cuticaria, food allergies or other atopic conditions. The antigen may be derived from infectious organisms such as infectious bacteria, viruses, parasites or fungi. It can be used in humans or animals, e.g. bovine, equine, feline, swine, aquatic or avian species. The ONs act as potent uncosal adjuvants to induce immune responses at both local and remote sites against an antigen administered to the mucosal tissue. Both cyler and mucosal immunity are induced by mucosal delivery of the ONS. AZA77891 represent examples of immunostimulatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Use of CG containing oligonucleotides as adjuvants for inducing an immune
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                                                                                                                                                                                                                                                                                                                                               (LOEB-) LOEB HEALTH RES INST AT OTTAWA HOSPITAL. (CPGI-) CPG IMMUNOPHARMACEUTICALS INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 25; 116pp; English.
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es 24; Conservative
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                                                                                                                                                                       21-MAY-1999;
WO9961056-A2
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Hoffman SL;

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The present invention describes a method for treating and preventing parasitic infection by administration of unmethylated CpG continuate infection by administration of unmethylated CpG coligonucleotides are able to stimulate the innate immune system via the activation of immune cells, such as antigen presenting cells, natural Killer cells and granulocytes. The CpG coligonucleotides and the method can be used to treat and prevent purasitic diseases, such as malaria, helminth diseases, tick and mites in humans, animals and poultry. The oligonucleotides may be administered in conjunction with parasiticides or other therapeutic compounds after an conjunction with parasiticides or other therapeutic compounds after an conjunction with parasiticide those caused by plasmodium can be treated or prevented include those caused by plasmodium can be treated or prevented include those caused by plasmodium conforti, B. divergens, Trypanosoma cruzi, T. gambiense, T. rhodesiense, Schistosoma mansoni, Toxoplasma gondiu, Trichinella spiralis, Leishmania com ajor, L. donovani, L. braziliensis, and L. tropica. The parasite is capended the parasite infection preventing exemplary oligonucleotide sequence from the present invention
                                                                                                                                                                                                      Treating and preventing parasitic infections using CpG oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Immune stimulatory nucleic acid stimulating NK cell lytic activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           core antigen; HBcAg; hapten presentation; immune response;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 24; DB 3; Length 24; 100.0%; Pred. No. 0.0018; ive 0; Mismatches 0; Indels
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                                                                                                   Davis HL,
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                                                                                                                                                                                                                                                     Disclosure; Page 21; 74pp; English.
(IOWA ) UNIV IOWA RES FOUND.
(OTTA-) OTTAWA CIVIC LOEB RES INST.
(USNA ) US SEC OF NAVY.
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                                                                                                     Gramzinski RA, Krieg AM,
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nes 24; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                               immunostimulant (I) absorbed on a metallic salt particle (II) that is practically free of antigen (Ag). Also described are: (1) preparation of a vaccine by maxing (A) with Ag; (2) vaccine comprising two major populations of complexes, one comprising (A) and the other Ag adsorbed on (II); and (3) kit comprising, in separate containers, monophosphoryl lipid A (MPL) adsorbed on metal salt and Ag adsorbed on metal salt. (A) as antiviral, antibacterial, antiprotozoal, antimalarial, anti-allergic and anticancer activities, and can be used to induce a specific immune response. (A) are used in preparation of vaccines for treatment or prevention of a wide range of viral, bacterial and protozoal infections, also allergy and cancers. By adsorbing (1) and Ag on separate particles, vaccines (including those containing many Ag) can be produced simply by mixing, rather than by sequential adsorption of many components on to the control). The components may be time-consuming, expensive and difficult to control). The component substance are ested individually and failure of any many and components on require rejection of an entire batch of vaccine.
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                                                                                                                                                                                                                                                                        Adjuvant composition comprising immunostimulant, useful for preparing vaccines, deposited on metal salt particle that contains no antigen, which is present on separate particles.
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                                                                                                                        (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS
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                    98GB-00022703.
98GB-00022709.
98GB-00022712.
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24; Conservative
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                    16-OCT-1998;
16-OCT-1998;
16-OCT-1998;
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                                                                                   The present sequence represents an immune stimulatory nucleic acid, which is included in the particles of the invention. The structure of these particles is based in part on duck hepatitis B viral core antigen (HBCAG). The particles are used for hapten presentation so as to elicit an immune response. The particles are formed by assembling recombinant forms of duck HBCAG, and are highly immunmogenic. Native duck HBCAG particles are 13-34 nm particles composed of 240 identical subunit monomers, and are very similar to human HBCAG. However, duck HBCAG is not cross-reactive with human HBCAG. Recombinant forms of duck hepatitis B virus elicit a THI (T helper cell) immune response. The duck HBCAG particles are used to elicit an immune response in a patient.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence represents an immune stimulatory nucleic acid, which is included in the particles of the invention. The structure of these particles is based in part on duck hepatitis B viral core antigen (HBCAG). The particles are used for hapten presentation so as to elicit an immune response. The particles are formed by assembling recombinant forms of duck HBCAG, and are highly immunmogenic. Native duck HBCAG particles are 32-34 nm particles composed of 240 identical subunit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A composition useful for inducing an immune response comprises nucleocapsid protein monomers, derived from duck hepatitis B virus, which are assembled to form a particle.
protein monomers, derived from duck hepatitis B virus, which
                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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TH1 immune response; gene therapy; 88.
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                  are assembled to form a particle.
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                                                   Claim 7; Page 23; 67pp; English
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(BIOC-) BIOCACHE PHARM LLC
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Best Local Similarity
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 nucleocapsid
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Polynucleotides encoding the particles may be used in gene therapy
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monomers, and are very similar to human HBCAg. However, duck HBCAg is n cross-reactive with human HBCAg. Recombinant forms of duck hepatitis B virus elicit a TH1 (T helper cell) immune response. The duck HBCAg particles are used to elicit an immune response in a patient. Polynucleotides encoding the particles may be used in gene therapy
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immune response; gene therapy; 88.
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The present invention relates to an adjuvant composition comprising a seponin and an immunosfimulatory oligonucleotide. A vaccine composition containing the adjuvant is useful for inducing an immune response in an individual and for preventing or treating disease. Diseases include accorders, allergy, Alzheimer's disease and atheroscierosis. The vaccine is also useful for prophylaxis and treatment of viral, bacterial and parasitic infections. The present sequence is an oligonucleotide of the
                                                                                                                                                                                                                                      Immunostimulatory, oligonucleotide, cancer; allergy, Alzheimer's disease, atherosclerosis, viral; bacterial; parasitic; infection; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Adjuvant composition comprising saponin and immunostimulatory oligonucleotide CpG, useful for producing vaccine formulations for prophylaxis and treatment of cancers, allergy and Alzheimer's disease.
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                1 TCGTCGTTTTGTCGTTTTGTCGTT 24
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99US-00301829.
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29-APR-1999;
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Search completed: August 5, 2005, 10:20:02 Job time : 273 secs

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1 TCGTCGTTTTGTCGTTTGTCGTT 24

1 Similarity 100. 24; Conservative

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1 (bases 1 to 24)

Krieg, A.M. and Weiner, G.

Methods and products for stimulating the immune simmuncherapeutic oligonucleotides and cytokines Patent: US 6218371-A 90 17-APR-2001;
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Sequence 46 from patent US 6239116.
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/organism="unknown"
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1 (bases 1 to 24)
Krieg, A.M. and Kline, J.N.
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         GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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l (bases 1 to 24)

Wagner, H. and Lipford, G.

Method of controlling hematopoiesis by using CpG oligonucleotide

CORY PHARMACEUTICALS GMBH, CORY PHARMACEUTICALS GROUP INC

Artificial Sequence

N JP 2002514397-A/90

PN JP 2002514397-A/90

PD 21-MAY-2002

PR 14-MAY-1999 US 2000547969

PR 14-MAY-1999 US 60/08516,02-FEB-1999 US 09/241653 PI

HERMANN WAGNER, GRAYSON LIPFORD

PC C12N15/09, A6LX31/70, A6LX39/39, CO7H21/04//A61K45/00, C12N15/00

CC Synthetic Sequence

PH Key Location/Qualifiers

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Method of controlling hematopoiesis by using CpG oligonucleotide.
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JP 2002510644-A/90.
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Methods and products for stimulating the immune system using
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/organism='Artificial Sequence'
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                                                                                                                                                                                         100.0%; Score 24; DB 6; Length 24; 100.0%; Pred. No. 0.00066;
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/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xrefe"taxon:32630"
Immunostimulatory nucleic acid moleci
Patent: US 6239116-A 46 29-MAY-2001;
Location/Qualifiers
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                                                                                            /organism="unknown"
/wol_type="unassigned DNA"
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JP 2002514397-A/90.
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synthetic construct
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Matches 24; Conservative
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BD261142
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BD205600
                                              FEATURES
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Artificial Sequence
JP 2002510644-A/90
09-APR-2002
02-APR-1999 UP 2000542030
03-APR-1999 US 60/080729
ARTHUR M KRIEG,GEORGE WEINER
A61K38/00,A61K31/7088,A61K39/00,A61P15/00,A61P35/00,A61P37/04,
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PC
AGIK39/00,AGIK9/10,AGIK9/16,AGIK9/50,AGIK9/51,AGIK31/70,AGIK39/ PC
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1 (bases 1 to 24)

Mccluskie, M.J. and Davis, H.L.

Mcchods and products for inducing mucosal immunity

Matchods and products for inducing mucosal immunity

Patent: JP 20025162394-A 77 04-JUN-2002;

LOEB HEALTH RESEARCH INSTITUTE AT THE OTTAWA HOSPITAL, CORY

PHARMACEUTICALS GROUP INC

OS Artificial Sequence

PN JP 2002216294-A/77

PD 04-JUN-2002
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/organism='Artificial Sequence'
Location/Qualifiers
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BD261298
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immunostimulatory synthetic oligonucleotide
Key
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100.0%; Score 24; DB 6; I
Best Local Similarity 100.0%; Pred. No. 0.00066;
Matches 24; Conservative 0; Mismatches 0;
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/db_xref="taxon:32630"

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    ^coganism="synthetic construct"
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24 bp DNA linear PAT 17-JUL-2003 Stereoisomer of CpG oligonucleotide and method relating thereto. BD270804
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                                                                       06-MAY-1999 JP 2000546780
06-MAY-1998 US 60/084512
ROBERT A GRAMZINSKI, ARTHUR M KRIEG, HEATHER L DAVIS, STEPHEN L
HOFFWAN
                                                                                                                                                                                A61K31/711, A61K9/127, A61K38/00, A61K38/22, A61K45/00, A61P31/00,
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C12N15/09,A61K37/02,A61K37/24,C12N15/00
Synthetic Sequence
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A61P35/00,A61P37/04,A61P37/06,A61P37/08
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Patent: JP 2002521489-A 77 16-JUL-2002;
UNIVERSITY OF IOWA RESEARCH FOUNDATION
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synthetic construct
other sequences; artificial sequences.
1 (bases 1 to 24)
Krieg,A.M.
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JP 2002521489-A/77
16-JUL-2002
27-JUL-1999 JP 2000562385
27-JUL-1998 US 60/094370
ARTHUR M KRIEG
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JP 2002513763-A/77
14-MAY-2002
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BD270804
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JP 2002513763-A/77.
synthetic construct
eynthetic construct
other sequences; artificial sequences.
1 (bases 1 to 24)
Gramainski,R.A., Krieg,A.M., Davis,H.L. and Hoffman,S.L.
Methods for the prevention and treatment of parasitic infections and related diseases using CPG oligonucleotides
Patent: JP 2002513763-A 77 14-MAY-2002;
UNIVERSITY OF 10WA RESERRCH FOUNDATION, OTTAWA CIVIC LOEB RESEARCH INSTITUTE, UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY
                                                                                                                                     PAT 17-JUL-2003
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                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 24)
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C12N15/09,
C12N15/00
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BD267904
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SMITHKLINE BEECHAM BIOLOGICALS SA
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    .24
    /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

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JP 2002542203-A/4
10-DEC-2002
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Homo sapiens (human)
Homo sapiens
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Monoclonal antibody production by ebv transformation of b cells Patent: WO 2004076677-A I 10-SEP-2004;
Institute for Research in Biomedicine (CH)
Location/Qualifiers
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Best Local Similarity 100.0%; Pred. No. 0.00066;
Matches 24; Conservative 0; Mismatches 0; Indels
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//mol_type="unassigned DNA"
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/noTe="Immunostimulatory oligonucleotide"
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                                                                                                              Patent: WO 2004019974-A 65 11-WAR-2004;
GLAXO GROUP LIMITED (GB); GlaxoSmithKline
Location/Qualifiers
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Patent: WO 2004031222-A 27 15-APR-2004;
GLAXO GROUP LIMITED (GB)
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Sequence 1 from Patent WO2004076677.
CQ875565
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                                                                                   Ashman, C. and Ellis, J.H.
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// organism="synthetic construct"
// nol_type="unassigned DNA"
// db_xref="taxon:32630"
// noTe="artificial immunostimulatory oligonucleotide"
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/organism="synthetic construct"
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                                                                                                                                                                                                                   Wagner, H., Kretzschmar, H. and Sethi, S.
Use of cpg nucleic acids in prion-disease
Patent: Wo 2004007743-A 19 22-JAN-2004;
Coley Pharmaceutical GmbH (DE)
Location/Qualifiers
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Patent: WO 2004019979-A 47 11-MAR-2004;
GLAXO GROUP LIMITED (GB)
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CQ788202.1 GI:45723052
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Unclassified.
1 (bases 1 to 24)
1 (bases 1 to 24)
Krieg,A.M., Davis,H.L., Wu,T. and Schorr,J.
Kriegsand methods for immunization or therapeutic protocols
Vectors and methods for immunization or therapeutic protocols
Patent: US 6339068-A 3 15-JAN-2002;
Location/Qualifiers
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Krieg,A.M., Davis,H.L., Wu,T. and Schorr,J.
Vectors and methods for immunization or therapeutic protocols
Patent: US 6339068-A 66 15-JAN-2002;
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Best Local Similarity 100.0%; Pred. No. 0.00066;
Matches 24; Conservative 0; Mismatches 0; Indels
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Matches 24; Conservative 0; Mismatches 0; Indels
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1. .24
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1. 24
/organism="unknown"
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Sequence 66 from patent US 6339068.
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Sequence 3 from patent US 6339068.
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15, Appl
15, Appl
123, App
8, Appli
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67, Appl
14987, A
23825, A
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Appl
                                                       5, 2005, 09:16:22; Search time 97 Seconds (without alignments) 404.852 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                        Description
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Sequence 6
Sequence 1
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1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
        5.1.6
Compugen Ltd
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US-09-286-098-90
US-08-9082-649B-3
US-09-082-649B-3
US-09-082-649B-3
US-09-082-649B-3
US-09-191-170-94
US-09-191-170-95
US-09-965-101-3
US-09-965-101-6
US-09-965-101-6
US-09-965-101-6
US-09-965-101-6
US-09-965-101-6
US-09-965-101-6
US-09-965-101-6
US-09-337-619-49
US-09-337-619-49
US-09-325-193A-78
US-09-325-193A-78
US-09-337-619-49
US-09-533-022-38
                                                                                                                                                                                         Total number of hits satisfying chosen parameters:
                                                                                                                                                        1202784 seqs, 818138359 residues
        GenCore version
Copyright (c) 1993 - 2005
                                                                                                                                                                                                                                                                                                                                                              SUMMARIES
                                         nucleic search, using sw model
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                                                                                                              1 tegtegtttgtegtttgtegtt
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Gapop_60.0 , Gapext 60.0
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24
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Maximum DB seq length: 200000000
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Match Length
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1347
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Perfect score:
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                                                          Run on:
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Sequence 90, Application US/09286098
Patent No. 6218371
Batent No. 6218371
Batent No. 6218371
Batent No. 6218371
APPLICANT: Krieg, Arthur M. APPLICANT: Weiner, George
APPLICANT: Weiner, George
TITLE OF INVENTION: Methods and Products for Stimulating the TITLE OF INVENTION: Cytokines
TITLE OF INVENTION: Cytokines
TITLE OF INVENTION: Cytokines
CURRENT APPLICATION NUMBER: US/09/286,098
CURRENT FILING DATE: 1999-04-02
CURRENT FILING DATE: 1999-04-03
NUMBER OF SEQ ID NOS: 105
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Sequence 28422, A Sequence 13815, A Sequence 13181, Ap Sequence 1517, Appli sequence 15171, Appli Sequence 17, Appli Sequence 11, Appli Sequence 13450, Ap Sequence 2981, Appl Sequence 4430, Appl Sequence 3735, Ap Sequence 3559, Ap Sequence 13611, Appl Sequence 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Krieg, Arthur M.
APPLICANT: Schwartz, David A.
TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
FILE REFERENCE: C1039/7011
CURRENT FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/039,405
PRIOR APPLICATION NUMBER: 60/039,405
NUMBER OF SEQ ID NOS: 65
SOFTWARE: FASESEQ for Windows Version 3.0
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                                  US-09-270-767-29425
US-09-107-551-1318
US-09-302-626B-1
US-09-302-626B-1
US-09-270-767-12471
US-09-302-626B-1
US-09-302-626B-1
US-09-302-626B-1
US-09-302-626B-1
US-09-313-681A-2981
US-09-310-6281-1
US-09-134-001C-904
US-09-134-001C-904
US-09-134-001C-904
US-09-134-001C-904
US-09-110-279-4335
US-09-710-279-4335
US-09-710-279-3735
US-09-710-279-3735
US-09-949-016-13001
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100.0%; Pred. No. 0.00042;
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OTHER INFORMATION: synthetic oligonucleotide
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; Sequence 6, Application US/09030701B
Patent No. 6214806
; GENERAL INFORMATION:
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Matches 24; Conservative
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SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/960,774
FILING DATE: 30-October-1997
CLASSIFICATION: 514
PRIOR APPLICATION ATA:
APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
FILING DATE: October 30, 1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
FELERANCE/DOCKET WUMBER: 08918/012001
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION OF 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs

"VOF: nucleic acid
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Sequence 46, Application US/08960774

Patent No. 6239III

PAPLICANT: Krieg et al.,

TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES

NUMBER OF SEQUENCES: 111

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.

STREET: 4225 Executive Square, Suite 1400

STATE: CA
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100.0%; Score 24; DB 3; Length 24;

Best Local Similarity 100.0%; Pred. No. 0.00042;

Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                  Query Match 100.0%; Score 24; DB 3; Length 24; Best Local Similarity 100.0%; Pred. No. 0.00042; Matches 24; Conservative 0; Mismatches 0; Indels
SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 90 LENGTH: 24
                                                                                                          FEATURE:
, OTHER INFORMATION: Synthetic Sequence
US-09-286-098-90
                                                                                                                                                                                                                                                                                           1 TCGTCGTTTTGTCGTTTTGTCGTT 24
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                TYPE: DNA
ORGANISM: Artificial Sequence
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; MOLECULE TYPE: cDNA
US-08-960-774-46
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STATE: Cl
COUNTRY:
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Gaps
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NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Backbone is a phosphorothioate--phosphodiester
US-09-082-6498-66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 66, Application US/09082649B
; Sequence 66, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Vectors and Methods for Immunization or TITLE OF INVENTION: Vectors and Methods for Immunization or TITLE OF INVENTION: Uperapeutic Protocols
TITLE OF INVENTION: Vectors and Methods for Immunization or TITLE OF INVENTION: Uperapeutic Protocols
FILE REFERENCE: C1039/7009
CURRENT FILING DATE: 1998-05-20
PRIOR PILING DATE: 1997-05-20
PRIOR PILING DATE: 1997-05-20
; PRIOR PILING DATE: 1997-05-20
; WUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 66
LENGTH: 24
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                                                                                               APPLICANT: Davis, Heather L.
APPLICANT: Krieg, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7009
CURRENT APPLICATION NUMBER: US/09/082,649B
CURRENT APPLICATION NUMBER: US 60/047,233
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR APPLICATION NUMBER: US 60/047,209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
100.0%; Score 24; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.00042;
Matches 24; Conservative 0; Mismatches 0; Indels
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100.0%; Score 24; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.00042;
Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
... OTHER INFORMATION: Has a phosphorothioate backbone.
US-09-082-649B-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: synthetic oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 TCGTCGTTTTGTCGTTTTGTCGTT 24
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Sequence 3, Application US/09082649B
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ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA ORGANISM: Artificial Sequence
                                                                           GENERAL INFORMATION:
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US-09-082-649B-66
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RESULT 4 US-09-082-649B-3

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US-09-191-170-95
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                                                                                                                                                   a
                                                                                                                                                                                                                                                                 APPLICANT: Schort, Joachim
APPLICANT: Schort, Joachim
APPLICANT: Schort, Joachim
APPLICANT: Schort, Joachim
APPLICANT: Krieg, Arthur M.
ITILE OF INVENTION: Use of Nucleic Acids Containing
TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
FILE REPERENCE: C1039/7025/HCZ
CURRENT APPLICATION NUMBER: US/09/325,193A
CURRENT FILING DATE: 1999-06-03
FRIOR PRILING DATE: 1999-01-16
PRIOR APPLICATION NUMBER: PCT/US98/04703
FRIOR APPLICATION NUMBER: PCT/US98/04703
FRIOR APPLICATION NUMBER: US 60/040,376
PRIOR PILING DATE: 1998-03-10
FRIOR PILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 98
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 77
LENGTH: 24
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Fatent No. 642919

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

APPLICANT: Krieg, Arthur M.

TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

TITLE OF INVENTION: for Activating Dendritic Cells

TITLE OF INVENTION: for Activating Dendritic Cells

FILE REFERENCE: C1039/7017

CURRENT APPLICATION NUMBER: US/09/191,170

CURRENT PILING DATE: 1997-10-30

EARLIER PILING DATE: 1997-10-30

EARLIER PILING DATE: 1996-10-30

EARLIER PILING DATE: 1996-10-30

EARLIER PILING DATE: 1996-0-10-30

EARLIER APPLICATION NUMBER: US 08/366,063

EARLIER APPLICATION NUMBER: US 08/36,063

EARLIER PILING DATE: 1994-07-15

NUMBER OF SEQ ID NOS: 99

SOFTWARE: FastSEQ for Windows Version 3.0
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llarity 100.0%; Pred. No. 0.00042;
Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           , OTHER INFORMATION: Synthetic Oligonucleotide US-09-325-193A-77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: synthetic oligonucleotide US-09-191-170-84
24
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                                                                                                                                                                                   Sequence 77, Application US/09325193A Patent No. 6406705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 24; Conserva
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APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
TITLE OF INVENTION: Car Activating Dendritic Cells
TITLE OF INVENTION: Car Activating Dendritic Cells
FILE REFERENCE: C1039/7017
CURRENT FILING DATE: 1998-11-13
EARLIER APPLICATION NUMBER: US 08/960,774
EARLIER PILING DATE: 1997-10-30
EARLIER FILING DATE: 1996-10-30
EARLIER FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 99
SOFTWARE: FEASTSEQ for Windows Version 3.0
LENGTH: 24
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; Score 24; DB 3; L
; Pred. No. 0.00042;
0; Mismatches 0;
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                                                                                                 1 TCGTCGTTTTGTCGTT 24
                                                                                                                                    1 TCGTCGTTTTGTCGTTTTGTCGTT 24
                                                                                                                                                                                                                                          US-09-191-170-95; Sequence 95, Application US/09191170; Patent No. 6429199
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    Query Match
Best Local Similarity 100.0%;
Matches 24; Conservative 0
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Best Local Similarity 100."
Matches 24; Conservative
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APPLICANT: Gerard, Catheri
APPLICANT: Hermand, Philip
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OTHER INFORMATION: m5c
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APPLICANT: Krieg, Arthur M.
TILE OF INVENTION: Methods of Treating Cancer Using
TITLE OF INVENTION: Methods of Treating Cancer Using
TITLE OF INVENTION: Immunostimulatory Oligonuclectides
FILE REFERENCE: C1039/7021/HCL.
CURRENT APPLICATION NUMBER: US/09/337,619
CURRENT FILING DATE: 1999-06-21
EARLIER APPLICATION NUMBER: US/08/36,063
EARLIER FILING DATE: 1997-10-30
EARLIER APPLICATION NUMBER: US/08/386,063
EARLIER FILING DATE: 1995-02-07
EARLIER FILING DATE: 1995-02-07
EARLIER FILING DATE: 1995-02-07
EARLIER APPLICATION NUMBER: US/08/386,063
                         FILE REFERENCE: B45181-1

CURRENT APPLICATION NUMBER: US/09/690,921

CURRENT FILING DATE: 2000-10-18

PRIOR APPLICATION NUMBER: PCT/EP00/02920

PRIOR FILING DATE: 2000-04-04

PRIOR FILING DATE: 1999-04-29

PRIOR FILING DATE: 1999-04-19

NUMBER OF SEQ ID NOS: 5

SOFTWARE: FASELSEQ for Windows Version 3.0

SEQ ID NO 4

LENGTH: 24
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Patent No. 6653292
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ORGANISM: Artificial Sequence
Vaccines
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Best Local Similarity 100.0
Matches 24; Conservative
   TITLE OF INVENTION:
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ORGANISM: Human
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US-09-965-101-3
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LENGTH: 24
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Schort, Joachim
APPLICANT: Schort, Joachim
TITLE OF INVENTION: Vectors and Methods for Immunization or
TITLE OF INVENTION: Therapeutic Protocols
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7057 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/965,101
CURRENT TILING DATE: 1201-09-26
PRIOR FILING DATE: 1998-05-20
PRIOR FILING DATE: 1998-05-20
PRIOR SPLING DATE: 1997-05-20
PRIOR FILING DATE: 1997-05-20
PRIOR FILING DATE: 1997-05-20
PRIOR FILING DATE: 1997-05-20
PRIOR FILING DATE: 1997-05-20
ENGURENT FEASTERE FOR WINDOWS: 84
CHARLES OF SEQ ID NOS: 84
CHARLES OF SEQ ID NO 66
CHARLES 
TITLE OF INVENTION: Vectors and Methods for Immunization or TITLE OF INVENTION: Therapeutic Protocols FILE OF INVENTION: Therapeutic Protocols FILE REFERENCE: C1039/7057 (HCL/MAT); CURRENT PELING DATE: 2001-09-26 PRIOR APPLICATION NUMBER: US/09/082,649 PRIOR APPLICATION NUMBER: US 09/082,649 PRIOR FILING DATE: 1998-05-20 PRIOR FILING DATE: 1998-05-20 PRIOR FILING DATE: 1997-05-20 PRIOR FILING DATE: 1997-05-20 PRIOR FILING DATE: 1997-05-20 PRIOR FILING DATE: 1997-05-20 PRIOR FILING DATE: 1997-05-30 PRIOR FILING DATE: 1997-05-30 PRIOR FILING DATE: 1997-05-20 PRIOR FILING DATE: 1997-05-30 PRIOR PRIOR FILING DATE: 1997-05-30 PRIOR P
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Best Local Similarity 100.0%; Pred. No. 0.00042;
Matches 24; Conservative 0; Mismatches 0; Indels
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ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)...(0)
LOCATION: (0)...(10)
US-09-965-101-3
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Best Local Similarity 100.0%; Pred. No. 0.00042;
Matches 24; Conservative 0; Mismatches 0;
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; Sequence 66, Application US/09965101
; Patent No. 6821957
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; Sequence 3, Application US/09965101; Patent No. 6821957; GENERAL INFORMATION:
APPLICANT: Davis, Heather L.; APPLICANT: Krieg, Arthur M.; APPLICANT: Schorr, Joachim

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24; Conservative
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APPLICANT: Krieg, Arthur M.
APPLICANT: Krieg, Arthur M.
APPLICANT: Krieg, Arthur M.
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1099/7009
CURRENT APPLICATION NUMBER: US/09/082,649B
CURRENT APPLICATION NUMBER: US 60/047,233
PRIOR PILING DATE: 1997-05-20
PRIOR PILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 85
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 15
LENGTH: 52
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APPLICANT: Krieg, Arthur M.

APPLICANT: Schorr, Joachim

APPLICANT: Schorr, Joachim

APPLICANT: Schorr, Joachim

TITLE OF INVENTION: Vectors and Methods for Immunization or

TITLE OF INVENTION: Therapeutic Protocols

FILE REFERENCE: C1039/7057 (HCL/MAT)

CURRENT APPLICATION NUMBER: US/09/965,101

CURRENT FILING DATE: 2001-09-26

FRIOR APPLICATION NUMBER: US 60/047,233

PRIOR PRILING DATE: 1998-05-20

PRIOR APPLICATION NUMBER: US 60/047,203

PRIOR APPLICATION NUMBER: US 60/047,209

PRIOR PRILING DATE: 1997-05-20

NUMBER OF SEQ ID NOS: 84

SOFTWARE: PSSESEQ for Windows Version 3.0

LENGTH: 52
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Pred. No. 0.0004;
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; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-15
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; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-15
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                                                                                                                          Sequence 15, Application US/09082649B Patent No. 6339068 GENERAL INFORMATION:
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ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
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                                                                                                                                                                           Sequence 123, Application US/09337619
Fatent No. 665329
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Methods of Treating Cancer Using
TITLE OF INVENTION: Immunostimulatory Oligonucleotides
FILE REFERENCE: C1039/7021/HCL
CURRENT FILING DATE: 1999-16-10
FARLIER APPLICATION NUMBER: US/09/337,619
CURRENT FILING DATE: 1999-16-10-30
FEARLIER FILING DATE: 1997-10-30
FEARLIER FILING DATE: 1997-10-30
FEARLIER FILING DATE: 1995-02-07
FEARLIER FILING DATE: 1995-02-07
FEARLIER FILING DATE: 1994-07-15
SARLIER FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 123
SOFTWARE: PSECSEQ for Windows Version 3.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 95.8%; Score 23; DB 4; Length 23; Best Local Similarity 100.0%; Pred. No. 0.0014; Matches 23; Conservative 0; Mismatches 0; Indels
  0; Indels
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0; Mismatches
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ORGANISM: Artificial Sequence
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US-09-337-619-123
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Search completed: August 5, 2005, 13:01:20 Job time : 99 secs

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August 5, 2005, 12:25:20 ; Search time 412 Seconds (without alignments) 377.611 Million cell updates/sec
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1: (cgn2_6/ptodata/2/pubpna/USO6_PUBCOMB.seq:*
2: (cgn2_6/ptodata/2/pubpna/USO6_PUBCOMB.seq:*
2: (cgn2_6/ptodata/2/pubpna/USO6_PUBCOMB.seq:*
2: (cgn2_6/ptodata/2/pubpna/USO6_PUBCOMB.seq:*
2: (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
2: (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
2: (cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
2: (cgn2_6/ptodata/2/pubpna/USO9_PUBCOMB.seq:*
2: (cgn2_6/ptodata/2/pubpna/USO0P_PUBCOMB.seq:*
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
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Gapop 60.0 , Gapext 60.0
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Maximum DB seq length: 200000000
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Perfect score:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| | Description | Sequence 4, Appli | Sequence 4, Appli | Sequence 90, Appl | Sequence 77, Appl | Sequence 77, Appl | Sequence 77, Appl | Sequence 147, App |
|-----------|----------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| SUMMARIES | ID | 9 US-09-760-506-4 | US-09-768-012-4 | US-09-824-468-90 | US-09-800-266A-77 | US-09-895-007A-77 | US-09-920-313-77 | US-09-920-313-147 |
| | DB | 6 | σ | Q | 9 | σ | σ | σ |
| | * Query Match Length DB ID | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| • | Query Match | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | Score | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Result No. | - | N | ٣ | 4 | 'n | ø | 7 |

| Sequence 23, Appl Sequence 729, App Sequence 730, App Sequence 731, App Sequence 731, App Sequence 731, App Sequence 231, App Sequence 246, App Sequence 262, App Sequence 273, App Sequence 352, App Sequence 964, App Sequence 965, App Sequence 265, App Sequence 266, App Sequence 273, App Sequence 266, App Sequence 273, App Sequence 275, App Sequence 275 | 3 7 6 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |
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ALIGNMENTS

TITLE OF INVENTION: Innate Immunity-Stimulating Compositions of CpG and TITLE OF INVENTION: Innate Immunity-Stimulating Compositions of CpG and TITLE OF INVENTION: Saponin and Methods Thereof TITLE OF INVENTION: Saponin and Methods Thereof FILE REFERENCE: 8444-153-99; CURRENT APPLICATION NUMBER: US/09/760,506; CURRENT FILING DATE: 2002-01-12; PRIOR APPLICATION NUMBER: 60/200,853; PRIOR PILING DATE: 2000-05-01; PRIOR FILING DATE: 2000-01-13; PRIOR PILING DATE: 1909-04-08; PRIOR PILING DATE: 1999-04-08; PRIOR FILING DATE: 1999-04-08; PRIOR PLING DATE: 1999-04-08; PRIOR PRICATION NUMBER: 60/128,608; PRIOR PELICATION NUMBER: 60/128,608; PRIOR PELICATION NUMBER: 60/128,608; PRIOR PELING DATE: 1999-04-08; PRIOR PELING DATE: 1999-04-08; PRIOR PELING DATE: 1999-04-08; PRIOR PELING DATE: DAVE: 60/205,913; PRIOR SPECIAL DATE: 1998-08-10; NUMBER OF SEQ ID NOS: 6; SOFTWARE: Patentin version 3.0; ESQ ID NOS: 6 ; FEATURE: ; OTHER INFORMATION: Description of Artificial Sequence: Motif US-09-760-506-4 Length 24; ; Sequence 4, Application US/09760506; Publication No. US20010034330A1; GENERAL INFORMATION: TYPE: DNA ORGANISM: Artificial Sequence Query Match

100.0%; Score 24; DB 9;

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ORGANISM: Artificial Sequence
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i Sequence 90, Application US/09824468

i Petent No. US20020064515A1

i GENERAL INFORMATION:

i APPLICANT: Weiner, George

i TITLE OF INVENTION:

i TITLE OF INVENTION:

CYLCKINES

TITLE OF INVENTION:

CURRENT APPLICATION NUMBER: US/09/824,468

CURRENT FILING DATE: 2001-04-02

PRIOR FILING DATE: 1999-04-02

NUMBER OF SEQ ID NOS: 105

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 90

LENGTH: 24

TYPE: DATE

TYPE: DATE
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; Sequence 4, Application US/09768012
; Patent No. US2001004416A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: McCluskie, Michael J.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for TITLE OF INVENTION: Inducing a Th2 Immune Response
; FILE REFERENCE: C1040/JO10/HCL/MAT
; CURRENT APPLICATION NUMBER: US/09/768,012
; CURRENT APPLICATION NUMBER: US 60/177,461
; PRIOR APPLICATION NUMBER: US 60/177,461
; PRIOR FILING DATE: 2000-01-20
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 3.0
; EQ ID NO 4
; LENGTH: 24
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                                0; Indels
1 Similarity 100.0%; Pred. No. 0.0019; 24; Conservative 0; Mismatches 0
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NAME/KEY: modified base
LOCATION: (2)...(2)
OTHER INFORMATION: Cytosine is unmethylated.
OTHER INFORMATION: (5)...(5)
OTHER INFORMATION: Cytosine is unmethylated.
LOCATION: (5)...(5)
OTHER INFORMATION: Cytosine is unmethylated.
LOCATION: (13)...(13)
OTHER INFORMATION: Cytosine is unmethylated.
LOCATION: (13)...(13)
OTHER INFORMATION: Cytosine is unmethylated.
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ORGANISM: Artificial Sequence
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Best Local Similarity
     Best Local Similarity
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Sequence 77, Application US/09800266A

Sequence 77, Application US/09800266A

Baten No. US20020156033A1

GENERAL INFORMATION:
APPLICANT: Bratiler, Robert L.
APPLICANT: Bratiler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment STILE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment STILE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment STILE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
TITLE OF INVENTION: Cancer Medicament Combination Therapy for Windows Version 3.0

SEQ ID NO 77

LENGTHARE: FastSEQ for Windows Version 3.0

SEQ ID NO 77

LENGTHARE: PROFESSED FOR MINDOWS VERSION 3.0
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APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
FILE REPERENCE: C1041/7014 (AWS)
CURRENT APPLICATION NUMBER: US/09/895,007A
CURRENT FILING DATE: 2001-06-28
PRIOR FILING DATE: 2000-06-28
PRIOR FILING DATE: 2000-06-28
NUMBER: OF SEQ ID NOS: 133
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 77
LENGTH: 24
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100.0%; Pred. No. 0.0019;
rative 0; Mismatches 0;
                                                                                                  Query Match
100.0%; Score 24; DB 9;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 24; Conservative 0; Mismatches 0.
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; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-77
) OTHER INFORMATION: Synthetic Sequence US-09-824-468-90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Synthetic Sequence
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APPLICANT: Schetter, Christian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA ORGANISM: Artificial Sequence
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Best Local Similarity 100.0
Matches 24; Conservative
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Length 24;

Query Match

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APPLICANT: Tuck, Stephen
APPLICANT: Tuck, Stephen
APPLICANT: Facaron, Karen L.
APPLICANT: Dina, Dina,
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Fublication No. US2030026801A1
GENERAL INFORMATION:
APPLICANT: Weiner, George
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Cell Lysis and Treating Cancer
TITLE OF INVENTION: Cell Lysis and Treating Cancer
FILE REFERENCE: C1039/7052 (AWS)
CURRENT APPLICATION NUMBER: US 60/213,346
FRIOR APPLICATION NUMBER: US 60/213,346
FRIOR APPLICATION NUMBER: US 60/213,346
FRIOR SEQ ID NOS: 848
SOFTWARE: FastSEQ for Windows Version 3.0
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100.0%; Score 24; DB 10;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 24; Conservative 0; Mismatches 0;
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OTHER INFORMATION: Synthetic oligonuclectide
NAME/KEX: misc feature
LOCATION: (0)...(0)
OTHER INFORMATION: phosphorothioate backbone
US-09-888-326-729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTGTCGTT 24
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                                                                                                               US-09-927-422A-23
; Sequence 23, Application US/09927422A
; Publication No. US20030022852A1
; GENERAL INFORMATION:
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ORGANISM: Artificial Sequence
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Best Local Similarity
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LENGTH: 24
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                                                                                                                                                                                                                                                                                                                                                                  Sequence 77, Application US/09920313

Publication No. US20020198165A1

GENERAL INFORMATION:

APPLICANT: Bratzler, Robert L.

APPLICANT: Bratzler, Robert L.

TITLE OF INVENTION: Nucleic Acids for the Prevention and TITLE OF INVENTION: Nucleic Acids for the Prevention CURENT PREFERENCE: C1037/7019 (HCL/MAT)

CURRENT PILING DATE: 2001-08-01

PRIOR PILING DATE: 2001-08-08

NUMBER OF SEQ ID NOS: 148

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 77
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Publication No. US2020198165A1

GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Nucleic Acids for the Prevention and TITLE OF INVENTION: Treatment of Gastric Ulcers
FILE REFERENCE: C1037/7019 (HCL/MAT)
CURRENT FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: US 60/222,248

PRIOR PLICATION NUMBER: US 60/222,248

NUMBER OF SEQ ID NOS: 148

SOFTWARE: FastSEQ for Windows Version:3.0

SEQ ID NO 147
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Best Local Similarity 100.0%; Score 24; DB 9; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 24; Conservative 0; Mismatches 0: Indels
                                                                                  0; Indels
100.0%; Score 24; DB 9;
llarity 100.0%; Pred. No. 0.0019;
Conservative 0; Mismatches 0:
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US-09-920-313-77
                                                                                                                                                      24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
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                                       Local Similarity
ses 24; Conserv
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Sequence 732, Application US/09888326
; Sequence 732, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Methods for Enhancing Cancer
; FILE REFERENCE: C1039/7052 (Aws)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: PastSEQ for Windows Version 3.0
; SEQ ID NO 732
LENGTH: 24
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Best Local Similarity
Matches 24; Conserv
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US-09-888-326-733
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O'THER INFORMATION: Synthetic oligonucleotide

NAME/KEY: misc_feature

LOCATION: (0)...(0)

O'THER INFORMATION: chimeric phosphorothioate/phosphodiester backbone

O'THER INFORMATION: with phosphorothioate at 5' and 3' ends

US-09-888-326-730
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     Sequence 730, Application US/0988326

Publication No. US20303026801A1

GENERAL INFORMATION:

APPLICANT: Weiner, George

APPLICANT: Weiner, George

TITLE OF INVENTION: Methods for Enhancing Antibody-Induced

TITLE OF INVENTION: Methods for Enhancing Antibody-Induced

TITLE OF INVENTION: Methods for Enhancing Antibody-Induced

FILE REFERENCE: C1039/7052 (AMS)

CURRENT PILION DATE: 2001-06-22

PRIOR FILING DATE: 2000-06-22

NUMBER OF SEQ ID NOS: 848

SOFTWARE: FastSEQ for Windows Version 3.0

LENGTH: 24
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Sequence 731, Application US/0988326

Publication NO. US20030026801A1

GENERAL INFORMATION:
APPLICANT: Weiner, George
APPLICANT: Weiner, George
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Cell Lysis and Treating Cancer
FILE OF INVENTION: Cell Lysis and Treating Cancer
FILE OF INVENTION: Cell Lysis and Treating Cancer
FILE OF ENVENTION: Cell Lysis and Treating Cancer
CURRENT APPLICATION NUMBER: US/09/888,326

CURRENT FILING DATE: 2001-06-22

NUMBER OF SEQ ID NOS: 848

SOFTWARE: FRASEREQ for Windows Version 3.0

SEQ ID NO 731

LENGTH: 24
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100.0%; Pred. No. 0.0019;
tive 0; Mismatches 0;
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NAME/KEY: misc_feature
LOCATION: (0)...(0)
THER INFORMATION: phosphodiester backbone
US-09-888-326-731
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ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Artificial Sequence
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Best Local Similarity 100.
Matches 24; Conservative
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hes 24; Conserv
US-09-888-326-730
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Wainer, George
APPLICANT: Wainer, George
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Cell Lysis and Treating Cancer
TITLE OF INVENTION: Cell Lysis and Treating Cancer
TITLE REFERENCE: C1039/7052 (AWS)
CURRENT APPLICATION NUMBER: US/09/888,326
CURRENT FILING DATE: 2001-06-22
PRIOR FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 848
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 733
LIENGTH: 24
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                                                                                                                                                                                               100.0%; Score 24; DB 10; Length 24; 100.0%; Pred. No. 0.0019;
                                                                                                                                                                                                                                                   Indels
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COTHER INFORMATION: Synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0) ... (0)
COTHER INFORMATION: phosphodiester backbone
NAME/KEY: misc_feature
LOCATION: (24) ... (24)
COTHER INFORMATION: blotinylated at 3' end
US-09-888-326-733
                                    OTHER INFORMATION: Synthetic oligonucleotide
NAME/KEY: misc_feature
DCATION: (0)...(0)
OTHER INFORMATION: phosphorodithioate backbone
US-09-888-326-732
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Publication No. US20030026801A1
GENERAL INFORMATION:
ORGANISM: Artificial Sequence FEATURE:
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; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Krieg, Alfred
; TILE OF INVENTION: Methods and Products for Treating HIV Infection
; TILE OF INVENTION: Methods and Products for Treating HIV Infection
; TILE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR PRILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOPTWARE: PatentIn version 3.0
; SEQ ID NO 38
                                                                                                                                                                                                                           APPLICANT: Kitieg, Arthur
APPLICANT: Klinman, Dennis
APPLICANT: Stinman, Dennis
APPLICANT: Stinman, Dennis
APPLICANT: Stinman, Dennis
APPLICANT: Stinmen, Dennis
APPLICANT: Stinmen, Dennis
APPLICANTON: Methods and Products for Treating HIV Infection
FILE REFERENCE: C1039/7053(HCL)
CURRENT APPLICATION NUMBER: US/09/911,583
CURRENT APPLICATION NUMBER: US/08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR PLILNG DATE: 1994-07-15
PRIOR PLILNG DATE: 1999-10-09
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patentin version 3.0
SEQ ID NO 29
LENGTH: 24
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NAME/KEY: misc_feature
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PEATURE:
NAME/KEY: misc feature
COTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-29
1 TCGTCGTTTTGTCGTTTTGTCGTT 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 TCGTCGTTTTGTCGTTTGTCGTT 24
                                                                                                                                                    Sequence 29, Application US/09931583; Publication No. US20030050263A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                   US-09-931-583-29
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Db 1 TCGTCGTTTTGTCGTT 24
Search completed: August 5, 2005, 18:49:09
Job time : 413 8ec8
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RH20719.5 Arabidops EK001923. RE36894.5

k144b08.y Drosophil

RE41506.5 GIO1 E04 kl28c03.y

LD35063

Scoring table:

Sequence:

OM nucleic

Run on:

Minimum DB E Maximum DB E

Database

Word size :

Searched:

LD04702.5 GIT000060

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Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
CDNA Library Arrayed by: The I M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM9273 row: k column: 11
High quality sequence stop: 608.
Location/Qualifiers
1. .936
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/strain="CZECH II"
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/clone="InAGE: 402025"
/clone="InAGE: 402025"
                                                                                                                                                                                                                                                                                       br142544 936 bp mRNA linear EST 24-OCT-2000
601789246F1 NCI_CGAP_Lu30 Mus musculus cDNA clone IMAGE:4020226 5',
mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /clone lib="NCI CGAP_Lu30"
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//note="Organ: lung; Vector: pCNV-SPORT6; Site_1: Not1;
//note="Organ: lung; Vector: pCNV-SPORT6; Site_1: Not1;
//clone lung; Vector: conden wind: Approximation driven by MMTV-Lir enhancer: Cloned unidirectionally. Primer: Oligo dr. Library constructed by Life Technologies.
Investigator providing samples: Gilbert Smith, NIH"
                                                                                                                                                                                                                                                                                                                                                                        Mus musculus sukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Makaryota; Metazoa; Chordata; Criurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 936)
11 (bases 1 to 936)
12 (bases 1 to 936)
13 (bases 1 to 936)
14 (bases 1 to 936)
15 (bases 1 to 936)
AG287122
CAS40627
CAS40627
A1454988
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B1172993
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CC196204
CAS5452
B1240201
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CAS5452
B1261936
B1651936
CO188372
AAZ01636
BNO27274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tissue_type="tumor, metastatic to mammary"
lab_host="DH10B"
                                                                                                                                                                                                                                            ALIGNMENTS
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AG287122
AA540627
CC080086
A1454980
A1454956
B1172903
B1484157
B1582498
AL760984
CO196204
                                                                                                                 CA954526
AG215202
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CA850429
                                                                                                                                                                    AI061956
BU088287
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BM027274
                                                                                                                                                                                                                                                                                                                                                              Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                          BF142544.1 GI:10981584
                      BF142544
  VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                      BF142544/c
LOCUS
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AUTHORS
TITLE
JOURNAL
COMMENT
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BJ709296
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                                                                      August 5, 2005, 07:13:21 ; Search time 2060 Seconds (without alignments) 443.467 Million cell updates/sec
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AZ360406
BH965008
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BF185539
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CG083367
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            GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd
                                                                                                                                                                                          residues
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                                                  nucleic search, using sw model
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                                                                                                                                                          OLIGO_NUC
Gapop_60.0 , Gapext 60.0
                                                                                                                                                                                                                                 Total number of hits satisfying chosen
                                                                                                           US-09-888-326A-729
24
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seq length: 200000000
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Match
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Perfect score:
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Gaps

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83.3%; Score 20; DB 2; Length 936; 100.0%; Pred. No. 0.06; ive 0; Mismatches 0; Indels

Conservative

Best Local Similarity Matches 20; Conserv

Query Match

PUGBV54TD OP20158 M OP20146 M

BZ826664 I BM415087 C BM415076 C

PUGGM74TD PUGBV54TB

BZ966944 BZ826661

Result

BZ82664

602326310

ORIGIN

5

8

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/lab host="B. coli strain XL10-Gold, T1-resistant, F-"
/clone lib="Meouse 10kb plasmid UUGCDM library"
/note="Vector: PWD42nr; Purified genomic DNA from M.
musculus C57BL/GJ (female) was obtained from the Jackson
Laboratory Mouse DNA Resources
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was hydrodynamically sheared in high molar excess. The
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pwD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent B. coll XI10-Gold (Stratagene) cells
and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Strongylocentrotus purpuratus
Strongylocentrotus purpuratus
Strongylocentrotus purpuratus
Eukaryota; Metazoa; Echinodermata; Eleutherozoa; Echinozoa;
Echinoidea; Eucerinoidea; Echinodea;
Strongylocentrotidae; Strongylocentrotus.

1 (bases 1 to 613)
Cameron,R.A., Mahairas,G., Rast,J.P., Martinez,P., Biondi,T.R.,
Swartzell,S., Wallace,J.C., Poustka,A.J., Livingston,B.T.,
Mray,G.A., Ettensohn,C.A., Lehrach,H., Britten,R.J, Davidson,E.H.
and Hood,L.
                                                                                                  Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SP 1040 A2 C02 T7A Strongylocentrotus purpuratus, purple sea
urchin, sperm genomic BAC library Strongylocentrotus purpuratus
genomic clone Plate=1040 Col=4 Row=B, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                            Plate: 0214 row: P column: 12
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                          organism="Mus musculus"
                Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                           High quality sequence stop: 494.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol_type="genomic DNA"
/strain="C57BL/6J"
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /db_xref="taxon:10090"
/clone="UUGC2M0214P12"
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                                                                                                                                                 Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Erro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         75.0%; Sco
ilarity 100.0%; Pr
Conservative 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /sex="Female"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AZ199737.1 GI:8394637
Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                  . .494
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Best Local Similarity
Loca 18; Conserve
                                                                                                                              USA
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JOURNAL
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KEYWORDS
SOURCE
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                                                                                                                                                                                                                                                                                                                                                                    FEATURES
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                     COMMENT
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                                                                                                                                                                                                                                                                                                                                                                                                             Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Actinopterygii; Neopterygii; Teleostei; Buteleostei; Nocteleostei; Acanthomorpha; Acanthomorpha; Acanthomorpha; Acanthomorpha; Acanthomorpha; Acanthomorpha; Acanthomorpha; Acanthomorpha; Percomorpha; Atherinomorpha; Crawfordiontiformes; Funduldae; Fundulus; Fundulus; Fundulus; Kasiak,M.F., Kolell,K.J., Paschall,J., VanWye,J., Fundulus; Functional Genomics: EST Database for Teleost Fish Unpublished (2004)
Contact: Crawford, Douglas L.
Marine Genomics - Crawford Lab
Marine Genomics - Crawford Lab
Rosenstiel School of Marine and Atmospheric Science - University of
                                                                                                                                                                               LN959113 442 bp mRNA linear EST 08-JUN-2004 6613 100130 12 Fundulus Heteroclitus Liver Fundulus heteroclitus CDNA, mRNA Sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AZ950586 10kb plasmid UUGC2M linear GSS 27-APR-2001 2M0214P12R Mouse 10kb plasmid UUGC2M library Mus musculus genomic clone UUGC2M0214P12 R, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. I (bases I to 494)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: dcrawford@rsmas.Miami.edu
Database Web Interface
http://genomics.rsmas.miami.edu/funnybase/super_craw3/
Plate: 100130 row: E column: 2.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4600 Rickenbacker Causeway, Miami, FL 33149-1098 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 7; Length 442;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /mol_type="mRNA"

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Indels

    .442
    /organism="Fundulus heteroclitus"

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                                                                                                                                                                                                                                                                                                                                                              Fundulus heteroclitus (killifish)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /clone_lib="Fundulus
/note="Organ: Liver"
                                                                       900 GrcGrrrrGrcGrrrrGrcG 881
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                        3 GTCGTTTTGTCGTTTTGTCG 22
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'mol_type="genomic DNA"
'strain="C57BL/6J"
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S Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Reilly, M., Rose, M., Rose, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.

Nouse: whole genome scaffolding with paired end reads from 10kb plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Blomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                /clone="Plate=1040 Col=4 Row=E"
/clone_lib="Strongylocentrotus purpuratus, purple sea
urchin, sperm genomic BAC library"
/note="Organ: sperm; Vector: BACe3.6; BAC Clones in E-Coli
DH10B"
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1M0103G09R Mouse 10kb plasmid UUGCIM library Mus musculus genomic
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A sea urchin genome project: Sequence scan, virtual map, and additional resources
Proc. Natl. Acad. Sci. U.S.A. 97 (17), 9514-9518 (2000)
20402566
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                                                                                                                                                                                                                                                                                                                                                               /organism="Strongylocentrotus purpuratus"
/mol_type="genomic DNA"
/db_xref="taxon:7668"
                                                                                                                 Hood,
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Insert Length: 10000 Std Error: 0.00
Plate: 0103 row: G column: 09
Seg primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
                                                                                                                 Contact: Cameron, RA, Davidson, EH,
                                                                                                                                 Division of Biology 156-29
California Institute of Technology
Pasadena California 91125, USA
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Location/Qualifiers
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High quality sequence stop: 613.
Location/Qualifiers
                                                                                                                                                                                      Tel: (626) 395-8421

Fax: (626) 793-3047

Email: acameron@caltech.edu

Plate: 1040 row: B column: 4

Seq primer: 77
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Fax: 801 585 7177
Email: ddunn@genet
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(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymuclectide kinase. Adaptor oligomuclectides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMAPA2 (gil #472114|gbh=R129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-GGold (Stratagene) cells and selected for ampicillin resistance."
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Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Brassica.
1 (bases I to 712)
Delehaunty, K., Fewell, G., Fulton, L., McCombie, W.R., Miner, T.,
Nash, W., Rabinowicz, P.D. and Wilson, R.K.
Whole genome shotgun reads from Brassica oleracea
Unpublished (2002)
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/db_xref="taxon:3712"
/clone_lib="B.oleracea002"
/note="Vector: pOTwl3; Whole genome shotgun library from flowering buds. DNA was purified from a crude nuclear prep using Brassica oleracea TO1000DH3 buds provided by
                                                                                                                                             /clone_lib="Mouse 10kb plasmid UUGCIM library"
/note="Vector: PMP4Znv; Purified genomic DNA from M.
musculus CZ7BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                         /lab host="E. Coli strain XL10-Gold, T1-resistant, F-"
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Mashington University School of Medicine
Email: submissions@watson.wustl.edu
Plate: od125 row: f column: 11
Seq primer: -21UPpOT forward
Class: shocgun
High quality sequence start: 17
High quality sequence stop: 551.
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/organism="Brassica oleracea"
/db_xref="taxon:10090"
/clone="UUGC1M0103G09"
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BF101046.1 GI:10883572
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S NIH-MGC http://mgc.nci.nih.gov/.

L Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov
Tissue Procurement: The Cepko Laboratory
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

Clone distribution: MGC clone distribution information can be http://image.llnl.gov
Plate: LLAM10383 row: g column: 03
High quality sequence stop: 157.
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                                                                                                                                                                                                                                                                                                            BG295964 1536 bp mRNA linear EST 21-FEB-2001 602395212F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:4507034 5',
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           DNA was provided by Pablo Rabinowicz (CSHL) and the shotgun library prepared at Washington University Genome Sequencing Center."
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/lab_host="DH10B (phage-resistant)"
/clone_lib="NHH_MGC_04"
/note="Grgan: eye; Vector: pCWV-SPORT6; Site_1: Not1;
Site_2: Sal1; Cloned unidirectionally; oligo-dT primed.
Average insert size 3: 3 kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NH_MGC Library."
Thosmas Osborn at the University of Wisconsin. Genomic
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Pred. No. 0.99;
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/mol_type="mRNA"
/db_xref="taxon:10090"
                                                                                                          Score 18;
Pred. No.
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100.0%; Pre
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2238 bp mRNA linear EST 31-OCT-2000 601814636F1 NIH_MGC_S5 Homo sapiens cDNA clone IMAGE:4045113 5', BF185539
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                                  Eukaryotari Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. I (bases 1 to 1811)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone lib="NCI_CGAP_Mam1"
/note="Organ: mammary; Vector: pCWV-SPORT6; Site 1: Sall;
Site 2: Not1; Cloned undirectionally. Primer: Oligo dT.
Library constructed by Life Technologies. Investigator
providing samples: Gilbert Smith, NIH"
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1 (bases 1 to 2238)

NIH-MGC http://dac.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                              Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov
Trissue Procurement: Gilbert Smith, Ph.D.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/Link at:

Plate: LiAM9184 row: p column: 02

High quality sequence stop: 514.
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Tissue Procurement: ATCC
CDNA Library Preparation: CLONETECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://magge.llnl.gov
Plate: LLCM870 row: h column: 10
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Pred. No. 0.98;
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/clone="IMAGE:1983857"
/tissue_type="tumor, biopsy sc
/dev_stage="tumor, biopsy sc
/lab_host="DH10B"
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100.0%; Pred. No. v...
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Mus musculus (house mouse)
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/strain="FVB/N"
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/lab_host="B. coli DH10B"
/lab_host="B. coli DH10B"
/clone lib="Normalized Anopheles Head (NAH) Library"
/clone lib="Normalized Anopheles Head (NAH) Library"
/note="Wector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; Site 1: EcoR1 (5'end); Site 2: Noti (3'end); a
directionally cloned and normalized, oligo-T primed CDNA
library constructed from strain 4arr adult mosquito heads.
Equal numbers of sugar fed females and 6,
and 10 Nost blood meal females were used: Bonaldo,
Lennon & Soares (1996): Normalization and Subtraction: Two
                                                                                                                                                                                                                                                                                                                                                                                                              C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.9-4.0 kb). 14/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ovolels University 226 bp mRNA linear EST 08-AUG-2003 BX618180 Normalized Anopheles Head (NAH) Library Anopheles gambiae CDNA clone AGAE267TR, mRNA sequence.
                                                                                                                                       /clone="Image: 105113"
/tissue_type="from acute myelogenous leukemia"
/tissue_type="from acute myelogenous leukemia"
/lab host="DH10B (TI phage-resistant)"
/clone=lin="MIH_MGC_55"
/note="Organ: bone marrow; Vector: pDNR-LIB (Clontech);
Site_1: Sfi (ggcgcctcggcc); Site_2: Sfi (ggcdattatggcc); Double-stranded cDNA was prepared from cell line RNA. $' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5' -CACGGCCATTATGGCC-3' and 3' adaptor sequence:
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Anopheles gambiae EST, Center for Tropical Disease Research and
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Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea;
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Center for Tropical Disease Research and Training
University of Notre Dame
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Anopheles gambiae
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                                                                      organism="Homo sapiens"
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Location/Qualifiers
                                                                                               _type="mRNA"
xref="taxon:9606"
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/db_xref="taxon:7165"
High quality sequence stop: 1.
Location/Qualifiers
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Tel: 574-631-9245
Fax: 574-631-3996
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Matches 18; Conservative
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/Lab host="Actions of the property of the prop
Approaches To Facilitate Gene Discovery, Genome Research 6, 791-806. ESTs sequenced from the M13 reverse priming site reading from the 5' ends of the cDNAs are indicated by 'R' in the clone name. ESTs sequenced from the M13 forward priming site reading from the 3' ends of the cDNAs are indicated by 'F' in the clone name."
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Lobo,N.L., Gardner,M., Romans,P. and Collins,F.H.
Anopheles gambiae EST, Center for Tropical Disease Research and
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Anopheles gambiae
Eukaryota; Merazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea;
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Center for Tropical Disease Research and Training
University of Notre Dame
Notre Dame, IN 46556, USA
Tel: 574-631-9245
Fax: 574-631-3996
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Pred. No. 4.1;
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BX615885
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Location/Qualifiers
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/clone="AGADB48TR"
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100.0%; Pred
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mRNA sequence.
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BJ709296/c
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                                                                                                                                                                                                  Homo sapiens

Enkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Enania; Eutheria; Primates; Catarrhin; Hominidae; Homo.

I (bases 1 to 642)

RS NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: Cgapbe-r@mail.nih.gov

Tissue Procurement: ArCC

CDNA Library Preparation: CLONTECH Laboratories, Inc.

CDNA Library Preparation: CLONTECH Laboratories, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequenciang by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov

Plate: LLCM362 row: g column: 12

High quality sequence stop: 461.
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                                                           BE565899 642 bp mRNA linear EST 15-AUG-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /tissue_type="carcinoma, cell line"
/lab host="DHIOB (T1 phage-resistant)"
/clooh="DHIOB (T1 phage-resistant)"
/note="Organ: bladder; Vector: pDNR-LIB (Clontech);
Site 1: Sfil (ggcgctccggcc); Site 2: Sfil
(ggcattatggcc); Double-stranded cDNA was prepared from cell line RNA. 5, and 3, adaptors were used in cloning as follows: 5, adaptor sequence: 5'-CACGGCCATATGGCC-3' and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauxia; Aves; Neognathae; Galliformes; Phasianidae;
Phasianinae; Gallus.
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5'-ATTCTAGAGGCCGAGGCGGCGACATG-dT(30)BN-3' (where B
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'organism="Homo sapiens"
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/db_xref="taxon:9606"
/clone="IMAGE:3681059"
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Gallus gallus
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BE565899.1 GI:9809619
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                                                                                                mRNA sequence.
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(bases 1 to 705)

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/dev stage="adult"
/lab host="DHIDB"
/clon_lib="CSEQRBN22"
/note="Vector: pBluescript II KS(+); Site 1: ECORI;
Site 2: Not1; This normalized library was constructed from 1 million independent clones. CDNA synthesis was initiated using an oligo(dT) primer, using methylated C in the first strand synthesis reaction. Following this first strand reaction, double-stranded cDNA was blunted, ligated to Not1 adapters, digested with ECORI, size-selected, and cloned into the Not1 and ECORI compatible sites of a custom modified MCS of the pBluescript (KS+) vector. The library was normalized in 2 rounds using conditions adapted from Soares et al., PNAS (1994) 91: 9228-9232 and Bonaldo et al., Genome Research 6 (1996): 791, except that a significantly longer reannealing hybridization was
Boardman, P. B., Sanz-Ezquerro, J., Overton, I.M., Burt, D.W., Bosch, E., Fong, W. T., Tickle, C., Brown, W.R.A., Wilson, S.A. and Hubbard, S.J. A Comprehensive Collection of Chicken cDNAs Curr. Biol. 12 (22), 1965-1969 (2002)
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BJ709296 MF01FFA CDNA Oryzias latipes CDNA clone MF01FFA008k15 5',
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Contact: Tadasu Shin-i
Center For Genetic Resource Information
National Institute of Genetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /db_xref="t_axon:9031"
/clone="ChEST343120"
/sex="Male and female"
/tssue_type="Chondrocytes isolated from growth plate
/artilage"
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                                                                                                                                                                                                                                                     Department of Biomolecular Sciences
University of Manchester Institute of Science and Technology
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Gallus gallus"
/mol_type="mRNA"
/strain="Layer and broiler"
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                                                                                                                                                                                                                                                                                                                                                   PO Box 88, Manchester, M60 1QD, UK
                                                                                                                                                                                                                                                                                                                                                                    Tel: 01612008930
Fax: 01612360409
Email: Simon.Hubbard@umist.ac.uk.
Location/Qualifiers
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Oryzias latipes
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                                                                                                                                                                                                                Contact: Simon Hubbard
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CG083967 110 bp DNA linear GSS 20-AUG-2003 PUJAF78TB ZM 0.6 1.0 KB Zea mays genomic clone ZMMBTa0622M11, genomic survey sequence.
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Spermatophyta, Magnoliophyta, Liliopsida, Poales, Poaceae, PACCAD
clade, Panicoideae, Andropogoneae, Zea.
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/mol type="genomic DNA"
/mol type="genomic DNA"
/gtrain="B73"
/db.rref="taxon:4577"
/clone="ZMMBTa0622M11"
/clone="Z
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Whitelaw, C.A., Quackenbush, J., Van Aken, S., Utterback, T., Resnick, A., Fraser, C.M., Yuan, Y., San Miguel, P., Ma, J. and Bennetzen, J.
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70.8%; Score 17; DB 9; Length 711;
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Matches 17; Conservative 0; Mismatches 0; Indels
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9712 Medical Center Drive, Rockville, MD 20850, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1111 Yata, Mishima, Shizuoka 411-8540, Japan
Tel: 81-559-81-6856
Fax: 81-559-81-6855
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Fax: 301-838-0208
Email: whitelaw@tigr.org
Seq primer: France:
Class: sheared ends.
Location/Qualifiere
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Unpublished (2003)
Contact: Cathy Whitelaw
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Krieg, A.M. and Weiner, G.

Methods and products for stimulating the immune system using immunotherapeutic oligonucleotides and cytokines Patent: US 6218371-A 90 17-APR-2001;
AR432469
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AX045771
AX045771
AX045780
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Sequence 46 from patent US 6239116.
AR154717
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AX045781

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AX045784

AX104070

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Unclassified.
1 (bases 1 to 24)
Krieg, A.M. and Kline, J.N.
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748.343 Million cell updates/sec
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BD261563
BD267904
BD270804
CQ788116
CQ788202
CQ788202
CQ7815138
CQ815138
CQ815138
AR182831
AR182831
AR222250
AR222261
AR303121
                                                              4, 2005, 23:33:10 ; Search time 1554 Seconds
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          GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                 4708233 seqs, 24227607955 residues
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Maximum Match 100%
Listing first 45 summaries
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Artificial Squence
JP 2002510644-A/90
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02-APR-1999 JP 2000542030
03-APR-1998 US 60/080729
ARTHUR M KRIEG, GEORGE WEINER
A61K38/00, A61K31/7088, A61K39/00, A61P35/00, A61P37/04,
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1 (bases 1 to 24)
Mccluskie, J. J.
Mcthods and products for inducing mucosal immunity
Patent: JP 2002516294A 77 04-JUN-2002;
LOBH HEALTH RESEARCH INSTITUTE AT THE OTTAWA HOSPITAL, CORY
PHARMACEUTICALS GROUP INC
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Location/Qualifiers
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immunostimulatory synthetic oligonucleotide
Key
  immunotherapeutic oligonucleotides and cytokines
                  Patent: JP 2002510644-A 90 09-APR-2002, VINIVERSITY OF IOWA RESEARCH FOUNDATION OS Artificial Sequence PN 92 2002510644-A 90 09-APR-2002, PN 09-APR-2002, PN 09-APR-2009, PP 02-APR-1999 US 60/080729 PI ARTHUR M KRIEG GEORGE WEINER PC ASIX/39/00, A61K31/7088, A61K39/00, A61F3/PC C Synthetic Sequence C Synthetic Sequence FT Source Location/Qualifiers FT FT FT Your Artificial Programs Artificial
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MICHAEL J MCCLUSKIE, HEATHER L DAVIS
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CB 1 (bases 1 to 24)

RS Wagner,H. and Lipford,G.

Method of controlling hematopoiesis by using CpG oligonucleotide cort colling hematopoiesis by using CpG oligonucleotide at cort colling hematopoiesis by using CpG oligonucleotide cort colling hematopoiesis by using CpG oligonucleotide at cort colling hematopoiesis by using CpG oligonucleotide cort cort paramaceurical Sequence

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PR 14-MAY-1999 UP 2000547969

PR 14-MAY-1999 UP 2000547969

PR 14-MAY-1999 US 60/08516,02-FEB-1999 US 09/241653 PI HERMANN WAGNER, GRAYSON LIPORD

CC Cl2N15/09,A61K31/70,A61K39/39,C07H21/04//A61K45/00,C12N15/00

CC Synthetic Sequence

FH Key Location/Qualifiers

FT source /organism='Artificial Sequence'.
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BD261142.1 GI:33070912
JP 2002510644-A/90.
Synthetic construct
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other sequences; artificial sequences.
( Chase 1 to 24)
Krieg, A.M. and Weiner, G.
Methods and products for stimulating the immune system using
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Immunostimulatory nucleic acid molecules
Patent: US 6239116-A 46 29-MAY-2001;
Location/Qualifiers

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/mol_type="unassigned DNA"
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PAT 17-JUL-2003

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24 bp DNA linear PAT 17-JUL-2003
Stereoisomer of CpG oligonucleotide and method relating thereto.
BD270804
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                                                        06-MAY-1999 JP 2000546780
OGE-MAY-1998 US 60/084512
ROBERT A GRAMZINSKI, ARTHUR M KRIEG, HEATHER L DAVIS, STEPHEN
HOFFWAN
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Synthetic Sequence
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A61P35/00,A61P37/04,A61P37/06,A61P37/08
Synthetic
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/mol_type="genomic DNA"
/db_xref="taxon:32630"
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other sequences; artificial sequences.
1 (bases 1 to 24)
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               Artificial Sequence
JP 2002513763-A/77
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JP 2002521489-A/77.
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Best Local Similarity
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   DEFINITION
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1 (bases 1 to 24)
Gramzinski,R.A., Krieg,A.M., Davis,H.L. and Hoffman,S.L.
Methods for the prevention and treatment of parasitic infections and related diseases using CPG oligonucleotides
Patent: JP 2002513763-A 77 14-MAY-2002;
UNIVERSITY OF 1004A RESEARCH FOUNDATION, OTTAWA CIVIC LOEB RESEARCH INSTITUTE, UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 24)
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parasitic infections
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and related diseases using CPG oligonucleotides.
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SMITHKLINE BEECHAM BIOLOGICALS SA
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100.0%; Pred. No. 2.3
ive 0; Mismatches
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    .24
    /organism="Homo sapiens"
    /mol_type="genomic DNA"
    /db_xref="taxon:9606"

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Homo sapiens (human)
JP 2002542203-A/4
10-DEC-2002
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JP 2002513763-A/77.
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Homo sapiens (human)
Homo sapiens
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BD261563
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BD267904
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                                           Ashman, C. and Ellis, J.H.
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/db_xref="taxon:32630"
/note="artificial immunostimulatory oligonucleotide"
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/mol_type="unassigned DNA"
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                                                                                                                                                   Wagner, H., Kretzschmar, H. and Sethi, S.
Use of cpg nucleic acids in prion-disease
Patent: WO 2004007743-A 19 22-JAN-2004;
Coley Pharmaceutical GmbH (DE)
Location/Qualifiers
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Patent: WO 2004019979-A 47 11-MAR-2004;
GLAXO GROUP LIMITED (GB)
LOCATION/Qualifiers
                     Sequence 19 from Patent WO2004007743.
CQ769070
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Sequence 65 from Patent W02004019974.
CQ788202 G1:45723052
                                                                                             synthetic construct
synthetic construct
other sequences; artificial sequences.
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CQ788116
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                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Monoclonal antibody production by ebv transformation of b cells
Patent: WO 2004076677-A 1 10-SEP-2004;
Institute for Research in Biomedicine (CH)
Location/Qualifiers
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Mol type="unassigned DNA"
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                                                                                                                                 Vaccine
Patent: WO 2004019974-A 65 11-MAR-2004;
GLAXO GROUP LIMITED (GB); GlaxoSmithKline
Location/Qualifiers
1. .24
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GLAXO GROUP LIMITED (GB)
Location/Qualifiers
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Sequence 1 from Patent WO2004076677.
CQ875565
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/db_xref="taxon:9606"
Homo sapiens (human)
Homo sapiens
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                                                                                                                                                                                                                                                                                                                                           Unknown.
Unclassified.
1 (bases 1 to 24)
1 (bases 2 to 24)
Krieg, A.M., Davis, H.L., Wu, T. and Schorr, J.
Vectors and methods for immunization or therapeutic protocols
Patent: US 6339068-A 3 15-JAN-2002;
Location/Qualifiers
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Unclassified.
I (bases 1 to 24)
I (bases 1 to 24)
Krieg, A.M., Davis, H.L., Wu, T. and Schorr, J.
Vectors and methods for immunization or therapeutic protocols
Patent: US 6339068-A 66 15-JAN-2002;
Location/Qualifiers
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100.0%; Score 24; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 24; Conservative 0; Mismatches 0; Indels
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100.0%; Score 24; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 24; Conservative 0; Mismatches 0; Indels
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Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 24; Conservative 0; Mismatches 0; Indels
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/note="CpG ODN-2006"
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Sequence 66 from patent US 6339068.
AR182894.1 GI:20226101
                                                                                                                                                                                                                                                            AR182831 24 bp
Sequence 3 from patent US 6339068.
AR182831
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| OB | Unmethylated cytosine-guanine dinucleotide containing oligonucleotide 4. |
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| 2 2 | ss; unmetnylated the oliniciectide; immine response; natural Killer cell; Th2 response; Th1 response; Th1 cytokine; hepatitis B. |
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| s S | Synthetic. |
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| PI | Davis HL, Schorr J, Krieg AM; ' |
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| 8 X | WPI; 1998-520792/44. |
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| , E | us) c.g. acjarame mesponse in subject. |
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      meningitis, neonatal sepsis, cystic fibrosis, inflammatory bowel disease and liver cirrhosis, Gram-negative pneumonia, Gram-negative abdominal abscess, haemorrhagic shock, disseminated intravascular coagulation, or
                                                                                                                                                                                                                                                                                                                                                                                                                                     Unmethylated CpG dinucleotide; immune response; bacterial meningitis; natural killer cell activation; NK cell; Th2 response; neonatal sepsis; pulmonary disorder; asthma; environmentally induced airway disease; bacterial infection; endotoxaemia; therapy; cystic fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              disseminated intravascular coagulation, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Use of nucleic acids containing an unmethylated CpG - for treating a subject having or at risk of having an acute decrement in air flow or inhibiting an inflammatory response.
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                                                    Seguence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
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                  disorders, e.g. hepatitis B virus infection
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                                                                                                                                                                                     TCGTCGTTTTGTCGTTTTGTCGTT
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                                                                                                         Similarity
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AAV27641-751 represent immunostimulatory oligodeoxyribonucleotides (ODN8) of the invention. The ODNs contain at least one unmethylated CpG dinucleotide, and have the formula: 5' NIXIGGX2X12', where at least one uncleotide separates consecutive CpGs, X1 is adenine, guanine, or uncleotide separates consecutive CpGs, X1 is adenine, guanine, or thymine, X2 is cytosine or thymine, N is any nucleotide and N1+N2 is 0-26 bases with the provision that N1 and N2 does not contain a CCGG tetramer or more than one CCG or CGG trimer OR 5' NXIXZCGX3X4N 3', where at least one nucleotide separates consecutive CpGs, X1 and X2 are selected from CGT GpG, GpG, ApT and ApA, X3 and X4 are selected from TpT or CpT, N is any nucleotide and N1+N2 is 0-26 bases with the provision that N1 and N2 consecutive CpGs and redirect a subject is immune response from a Th2 to a Th1 (e.g. by inducing monocytic cells and other cells to produce Th1 cytokines, including IL-12, IFN-gamma and GM-CSF). The ODNs can be used to treat or prevent an asthmatic disorder, adjournt during antibody generation in a mammal such as a mouse or a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New immunostimulatory nucleic acid molecules - which contain at least one unmethylated CpG dinucleotide, used for treating e.g. tumours, infections
                                                                                                                                                                                                                                                                             Immunostimulatory; oligodeoxyribonucleotide; ODN;
unmethylated ÇpG dinucleotide; activate; lymphocyte; immune response;
Th2; Th1; cytokine; treatment; prevention; asthma; autoimmune disease;
desensitisation therapy; artificial adjuvant; antibody generation; ss.
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AAV83715 standard; DNA; 24

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(revised)
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AAV83715;

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care used in the invention to induce interleukin-12 (IL-12) secretion from human PaNC. The invention comprises stimulating an immune response in a subject comprising administering to a subject exposed to an antigen, an immunopotentiating cytokine and an immunostimulatory CpG oligonucleotide immunopotentiating cytokine and an immunostimulatory CpG oligonucleotide to induce a synergistic antigen specific immune response. The methods are useful for treating cancer by stimulating an antigen specific immune response against a cancer antigen. The methods can also be used to treat neoplastic disorders in humans, including but not limited to: sarcoma, carcinoma, fibroma, Lymphoma, melanoma, neuroblastoma, retinoblastoma, and glioma. The methods are also useful for treating infectious diseases, e.g. viral diseases such as HIV, bacterial diseases, and fungal diseases.
The methods and also be used to treat allergic diseases, e.g. asthma. The methods and compositions may also be applied to treat cancer and tumours in non human subjects, e.g. cats and dogs. Neoplasias affecting adaptions and such as the cancer and include leukaemia, humanicus and propertions and sobs treated and include leukaemia, humanicus and propertions and sobs treated and include leukaemia, humanicus and propertions and sobs treated and include leukaemia, humanicus and passes and pas
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CpG oligonucleotide; phosphorothioate; interleukin-12; IL-12; secretion; Muman PBMC; immune response; cancer; HTV; bacterial disease; asthma; neoplastic disorder; jaagsiekte; B cell; NK cell; ss; cytokine; antigen presenting cell; infection; allergic disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             haemangiopericytoma and bovine ocular neoplasia. Chronic, infectious, contagious diseases of sheep and goats caused by the bacterium Corynebacterium pseudotuberculosis, and contagious lung tumour of sheep
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                                                              AAZ41936 standard; DNA; 24 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      immunostimulatory effect of an antigen encoded by nucleic acid contained in a nucleic acid construct. The method involves determining the CpG-N and CpG-S motifs present in the construct, removing neutralising CpG (CpG-N) motifs and optionally inserting stimulatory CpG (CpG-S) motifs in the construct, thereby producing a nucleic acid construct having enhanced against viral antigens, e.g. from hepatities B virus (HBV), bacterial antigens or an antigen derived from a parasite. They can also be used for tumour suppressors, cytokines, apoptotic proteins, interferons, hormones, clotting factors, lorgands and receptors. (Updated on 20-MAR-2003 to
                                                                                                  CpG-N motif; immunostimulation; antigen; CpG-S motif; immunisation; viral antigen; bacterial antigen; parasite; therapeutic; growth factor; toxins; tumour suppressor; cytokine; apoptotic protein; interferon; hormone; clotting factor; ligand; receptor; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This sequence is used in the description of a method for enhancing the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Use of neutralising CpG and stimulating CpG motifs in DNA vectors enhancing the immunostimulatory effect of an antigen or enhancing expression of a therapeutic polypeptide.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 24; DB 2; Length 24; ilarity 100.0%; Pred. No. 2.4; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
                                                                       Synthetic oligonucleotide with CpG-N motif #3.
                                                                                                                                                                                                                                                                                                                                             (OTTA-) OTTAWA CIVIC HOSPITAL LOEB RES INST. (IOWA ) UNIV IOWA RES FOUND.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 13; Page 86; 109pp; English
                                                                                                                                                                                                                                                                                                                                                                                                          Schorr J,
                                                                                                                                                                                                                                                                                                 97US-0047209P.
                                                                                                                                                                                                                                                                       98WO-US010408
                                                                                                                                                                                                                                                                                                                                                                                                          Davis HL, Krieg AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-059712/05.
                                                                                                                                                                                                                                                                                                                                                                            QIAGEN GMBH
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                                                                                                                                                                                                                                                                                                   20-MAY-1997;
20-MAY-1997;
                                                                                                                                                                                                                                                                       20-MAY-1998;
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                                                                                                                                                                                                                                         26-NOV-1998.
                                                                                                                                                                                Synthetic.
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AC AAV7
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AAV74252 standard; DNA; 24

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Gaps

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100.0%; Score 24; DB 2; Length 24; 100.0%; Pred. No. 2.4;

Mismatches 24

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Query Match

TCGTCGTTTTGTCGTTTTGTCGTT 24

AAV74252;

Synthetic.

(IOWA) (QIAG-)

Use

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AAZ60933-Z61015 represent immunostimulatory stereoisomers of CpG oligonucleotides. The sequences are derived from generic nucleic acid sequence, from which immunoinhibitory sequences may also be derived. The immunostimulatory nucleic acids can be co-administered with an antigen to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         induce an antigen-specific immune response. The immunostimulatory nucleic acids can also be used in methods for redirecting a subject's immune response from a Th2 to a Th1, for treating asthma, for desensitising a subject against the occurrence of an allergic reaction in response to contact with an allergen, for activating an immune cell, especially a lymphocyte or a dendritic cell expressing a cancer antigen or for treating cancer. The immunoinhibitory nucleic acid can be used to prevent an immune response, especially where the immune response in the subject is excessive due to having received an immune stimulating compound. The immunoinhibitory nucleic acid can be used to treat a subject having or at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Haematopoiesis; regulation; CpG oligonucleotide; phosphorothioate; immune remodeling; thrombopoiesis; anaemia; immune system; cancer; immune response; allergic reaction; infectious dieease; asthma; thrombocytopaenia; immunohaemolytic disorder; genetic disorder; haemoglobinopachy; kidney failure; chronic inflammatory disorder; rheumatoid arthritis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Immune remodeling inducing CpG oligonucleotide SEQ ID NO:90.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Immunostimulatory and immunoinhibitory stereoisomers of CpG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 24; DB 3; Length 24; 100.0%; Pred. No. 2.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              autoimmune disease, gingivitis, psoriasis and sepsis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oligonucleotides useful for immunotherapy of cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        risk of an inflammatory disease, especially
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches
                                                                                                                                                                                                                                                                                                                    (CPGI-) CPG IMMUNOPHARMACEUTICALS INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 12; 88pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCGTCGTTTTGTCGTTTTGTCGTT
    gingivitis; psoriasis; sepsis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAZ48012 standard; DNA; 24 BP
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                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2000-195254/17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sest Local Similarity
                                                                                                 WO200006588-A1.
                                                                                                                                                                                               27-JUL-1999;
                                                                                                                                                                                                                                              27-JUL-1998;
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                                                                                                                                                10-FEB-2000
                                                    Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                 Krieg AM;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAV74237-V74253 are oligodeoxymucleotide (ODN) primers used to describe a method for enhancing the immunostimulatory effect of an antigen encoded by nucleic acid contained in a nucleic acid construct. The method involves determining the CpG-N and CpG-S motifs present in the construct, removing neutralising CpG (CpG-N) motifs and optionally inserting stimulatory CpG (CpG-S) motifs in the construct, thereby producing a nucleic acid construct having enhanced immunostimulatory efficacy. The method can be used for immunisation against viral antigens, e.g. from hepatitis B virus (HBV), bacterial antigens or an antigen derived from a parasite. They are also be used for expression of a therapeuticity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              parasite. They can also be used for expression of a conceptual polypeptide, e.g. growth factors, toxins, tumour suppressors, cytokines, apoptotic proteins, interferons, hormones, clotting factors, ligands and apoptotic proteins, interferons, to correct PA field.)
                                                                                                               CpG-N motif; immunostimulation; antigen; CpG-S motif; immunisation; ODN; viral antigen; bacterial antigen; parasite; therapeutic; growth factor; toxin; tumour suppressor; cytokine; apoptotic protein; interferon; hormone; clotting factor; ligand; receptor; oligodeoxynucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immunostimulatory, stereoisomer, CpG oligonucleotide, Th2; Th1; asthma, allergic reaction, allergen, cancer antigen, cancer; immunoinhibitory, inflammatory disease; inflammatory bowel disease; autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               of neutralising CpG and stimulating CpG motifs in DNA vectors - fc
ancing the immunostimulatory effect of an antigen or enhancing the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTTAWA CIVIC HOSPITAL LOEB RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 expression of a therapeutic polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Page 64; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Schorr J,
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                                                                     SOS-ODN 2022 DNA.
                                                                                                                                                                                                                                                                                                                                                                                     98WO-US010408.
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                        (first entry)
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  (revised)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QIAGEN GMBH
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les 24; Conserv
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                        15-MAR-1999
20-MAR-2003
                                                                     CpG-N motif
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AAZ61001;

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Query Match

Matches

inflammatory bowel disease,

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WO9961056-A2.
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                                                                                                                                                                                                                                                                                                                               The present invention describes a method using CpG containing oligonucleotides (ONs) for regulating immune system remodeling and for coligonucleotides (ONs) for regulating immune system remodeling and for regulating hasmatopoissis. The method for inducing an antigen-specific immune response comprises: (1) administering an ON having a sequence including at least 1 days after the ON is administered to the subject to an antigen specific immune response: 5 XICCX23 (1), where the ON = includes at least 8 nucleotides; C and G = unmethylated, and X1 and X2 = nucleotides. The method can be used for inducing an immune response gainst an antigen such as cells, cell extracts, proteins, polysaccharides polysaccharide conjugates, lipids, glycolipids, polysaccharides polysaccharide conjugates, lipids, glycolipids, carbohydrate, viral extracts, viruses, bacteria, fungi, parasites and allergic reaction. It can also be used for treating an infectious allergic reaction. It can also be used for treating an infectious disease, allergic diseases and asthma, as well as thrombocytopenic purpura, or resulting from accidental or therapeutic treating anaemia such as idopathic cinflammatory disorder, genetic disorders such as indeced anaemia, immunohaemolytic disorder, genetic disorders such as chronic inflammatory disorder such as rheumatorid architis, or anaemia chancing from accidental or therapeutic resulting from accidental or th
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mucosal immunity; immunostimulatory; CpG motif; immune response; antigen; allergic reaction; cancer; infectious disease; asthma; eczema; allergic rhinitis; coryza; hay fever; conjunctivitis; bronchial asthma; urticaria; food allergy; atopic condition; mucosal delivery; ss.
                                                                                                                                                                                                                                                 Use of CpG containing oligonucleotides for, e.g. inducing an antigen-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 24; DB 3; Length 24; 100.0%; Pred. No. 2.4; cive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Immunostimulatory oligonucleotide sequence SEQ ID NO:77.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
                                                                                                                      (CPGI-) CPG IMMUNOPHARMACEUTICALS GMBH.
(CPGI-) CPG IMMUNOPHARMACEUTICALS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 TCGTCGTTTTGTCGTT 24
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                                                                                                                                                                                                                                                                                                     Example 1; Page 66; 116pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ47876 standard; DNA; 24 BP
                                   99WO-IB001285.
                                                                  98US-0085516P.
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                                                                                                                                                                                                                                                                    specific immune response.
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                                                                                                                                                                            Wagner H, Lipford G;
                                                                                                                                                                                                              WPI; 2000-062261/05.
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                                                                                     02-FBB-1999;
18-NOV-1999.
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AAZ47876
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method for inducing a mucosal immune response. The method for inducing an immune response. The method for inducing a mucosal immune response (MIR) comprises: (1) cadministering to a mucosal immune response (MIR) comprises: (1) cadministering to a mucosal immune subject an ON, having a sequence including at least the formula (I), and (2) exposing the subject to an antigen to induce the MIR, where the antigen is not encoded in a nucleic card vector: SYXIX2CASA43' (I), where C and G = unmerhylated, and XI, X2, X3 and X4 = nucleotides. The method can be used for treating a sthmatic subject at risk of developing an allergic reaction, cancer or infectious cubject at risk of developing an allergic reaction, cancer or infectious crimities or coryza, hay fever, conjunctivitis, bronchial asthma, cubinities or coryza, hay fever, conjunctivitis, bronchial asthma, cubinities or coryza, hay fever, conjunctivitis, bronchial asthma, cubined from infectious organisms such as infectious bacteria, viruses, parasites or fungi. It can be used in humans or animals, e.g. bovine, equine, feline, swine, aquatic or avian species. The ONS act as potent mucosal adjuvants to induce immune responses at both local and remote sites against an antigen administered to the mucosal tissue. Both systemic and mucosal immunity are induced by mucosal delivery of the ONS. ANATARRELED ANATARRELED AND AND ANATARRELED AND ANATARRELED AND ANATARRELED AND ANATARRELED ANATARRELED AND ANATARRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of CG containing oligonucleotides as adjuvants for inducing an immune
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  present invention describes a method using CpG containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 24; DB 3; Length 24; 100.0%; Pred. No. 2.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
                                                                                                                                                                                                                        (LOEB-) LOEB HEALTH RES INST AT OTTAWA HOSPITAL. (CPGI-) CPG IMMUNOPHARMACEUTICALS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               oligonucleotides given in the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CpG immunostimulatory oligonucleotide #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 25; 116pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 TCGTCGTTTTGTCGTTTTGTCGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAA39265 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99WO-EP007764.
                                                                          99WO-US011359
                                                                                                                                                 98US-0086393P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                           Accluskie MJ, Davis HL;
                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2000-062585/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
Matches 24; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200023105-A2.
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                                                                                                                                                 22-MAY-1998;
                                                                          21-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27-APR-2000.
32-DEC-1999
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parasitic infection by administration of unmethylated CpG
oligonucleotides. The CpG oligonucleotides are able to stimulate the
imnate immune system via the activation of immune cells, such as antigen
presenting cells, natural killer cells and granulocytes. The CpG
oligonucleotides and the method can be used to treat and prevent
parasitic diseases, such as malaria, helminth diseases, tick and mites in
humans, animals and poultry. The oligonucleotides may be administered in
conjunction with parasiticides or other therapeutic compounds after an
conjunction with parasiticides or other therapeutic compounds after an
conjunction with parasiticides or other therapeutic compounds after an
conjunction with parasiticides or other therapeutic compounds after an
conjunction with parasiticides or other therapeutic compounds after an
conjunction with parasiticides or other therapeutic compounds after an
conjunction with parasiticides or unique those caused by plasmodium
falciparum, P. ovale, P. malariae, P. vivax, P. knowlesi, Babbesia
microti, B. divergens, Trypanosoma cruzi, T. gambiense, T. rhodesiense,
Schistosoma mansoni, Toxoplasma gondii, Trichinella spiralis, Leishmania
major, L. donovani, L. brazilliensis, and L. tropica. The parasite is
cepecially capable of causing malaria. The present sequence represents a
parasitic infection preventing exemplary oligonucleotide sequence from
                                                                                                                                                                                                                       Treating and preventing parasitic infections using CpG oligonucleotides.
                                                                                                                                                                                                                                                                                                                              present invention describes a method for treating and preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Immune stimulatory nucleic acid stimulating NK cell lytic activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Viral core antigen; HBcAg; hapten presentation; immune response;
TH1 immune response; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A composition useful for inducing an immune response comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 24; DB 3; Length 24;
Pred. No. 2.4;
0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
                                                                                                                 Hoffman SL;
                                                                                                              Davis HL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCGTCGTTTTGTCGTTTTGTCGTT 24
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(IOWA ) UNIV IOWA RES FOUND.
(OTTA-) OTTAWA CIVIC LOEB RES INST.
(USNA ) US SEC OF NAVY.
                                                                                                                                                                                                                                                                             Disclosure; Page 21; 74pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAA63588 standard; DNA; 24 BP
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ilarity 100.0%;
Conservative 0
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                                                                                                                 Krieg AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-DEC-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the present invention
                                                                                                                                                                 WPI; 2000-062123/05.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Viral core antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 24; Conserv
                                                                                                                 Gramzinski RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200046365-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes an adjuvant composition (A) comprising an immunostimulant (I) absorbed on a metallic salt particle (II) that is practically free of antigen (Ag). Also described are: (I) preparation of a vaccine by mixing (A) with Ag; (2) vaccine comprising two major (II); and (3) kit comprising, in separate containers, monophosphoryl lipid A (MPL) adsorbed on metal salt and Ag adsorbed on metal salt. (A) has antiviral, antibacterial, antiprotozoal, antimalarial, anti-allergic and anticancer activities, and can be used to induce a specific immune response. (A) are used in preparation of vaccines for treatment or prevention of a wide range of viral, bacterial and protozoal infections, also allergy and cancers. By adsorbing (I) and Ag on separate particles, vaccines (intoluding those containing many Ag) can be produced simply by mixing, rather than by sequential adsorption of many components on to the same particles (which is time-consuming, expensive and difficult to control). The component may be tested individually and failure of any one component does not require rejection of an entire batch of vaccine. The new vaccines are as effective as those prepared conventionally. The component energy are those prepared conventionally. The component series are as effective as those prepared conventionally. The component series are as effective as those prepared conventionally.
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                                                                                                                                                                                                                                                                                              Adjuvant composition comprising immunostimulant, useful for preparing vaccines, deposited on metal salt particle that contains no antigen, which is present on separate particles.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Parasitic infection preventing exemplary oligonucleotide SEQ ID NO:77.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%; Score 24; DB 3; Length 24; 100.0%; Pred. No. 2.4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present sequence represents a CpG immunostimulatory oli is used in the exemplification of the present invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                  (SMIK ) SMITHKLINE BEECHAM BIOLOGICALS.
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                                                     98GB-00022709.
                            98GB-00022703
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                                                                                                                                                                                                                                              WPI; 2000-339525/29.
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                                                                               16-OCT-1998;
                            16-OCT-1998;
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Query Match

Local

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AAZ47671;

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                                                                                  The present sequence represents an immune stimulatory nucleic acid, which is included in the particles of the invention. The structure of these particles is based in part on duck hepatitis B viral core antigen (HBCAG). The particles are used for hapten presentation so as to elicit an immune response. The particles are formed by assembling recombinant forms of duck HBCAG, and are highly immunmogenic. Native duck HBCAG particles are 12-14 nm particles composed 0.40 identical subunit monomers, and are very similar to human HBCAG. However, duck HBCAG is not cross-reactive with human HBCAG. Recombinant forms of duck hBCAG is not virus elicit a THI (T helper cell) immune response. The duck HBCAG particles are used to elicit an immune response in a patient.

Polynucleotides encoding the particles may be used in gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A composition useful for inducing an immune response comprises nucleocapsid protein monomers, derived from duck hepatitis B virus, which are assembled to form a particle.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence represents an immune stimulatory nucleic acid, which is included in the particles of the invention. The structure of these particles is based in part on duck hepatitis B viral core antigen (HBCAg). The particles are used for hapten presentation so as to elicit an immune response. The particles are formed by assembling recombinant forms of duck HBCAg, and are highly immunmogenic. Native duck HBCAg particles are 13-34 nm particles composed of 240 identical subunit
derived from duck hepatitis B virus, which
                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Viral core antigen; HBcAg; hapten presentation; immune response;
TH1 immune response; gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Immune stimulatory nucleic acid stimulating cytokine production.
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                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 24; DB 3; Length 24; llarity 100.0%; Pred. No. 2.4; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                   Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
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nucleocapsid protein monomers, de
are assembled to form a particle.
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                                                   Claim 7; Page 23; 67pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
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                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       monomers, and are very similar to human HBCAg. However, duck HBCAg is n cross-reactive with human HBCAg. Recombinant forms of duck hepatitis B virus elicit a TH1 (T helper cell) immune response. The duck HBCAg particles are used to elicit an immune response in a patient. Polynucleotides encoding the particles may be used in gene therapy
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                                                                                                                                                                                                                                                                                                                                                                                                          Immune stimulatory nucleic acid stimulating B cell proliferation.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Viral core antigen; HBcAg; hapten presentation; immune response;
TH1 immune response; gene therapy; ss.
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                                                                                                            Sequence 24 BP; 0 A; 4 C; 6 G; 14 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                 AAA63598 standard; DNA; 24
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The present invention relates to an adjuvant composition comprising a saponin and an immunostimulatory oligonucleotide. A vaccine composition containing the adjuvant is useful for inducing an immune response in an individual and for preventing or treating disease. Diseases include cancers, allergy, Alzheimer's disease and atherosclerosis. The vaccine is also useful for prophylaxis and treatment of viral, bacterial and parabitic infections. The present sequence is an oligonucleotide of the
                                                                                                                                                                                                                          Immunostimulatory, oligonucleotide, cancer; allergy, Alzheimer's disease, atherosclerosis, viral; bacterial; parasitic; infection; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Adjuvant composition comprising saponin and immunostimulatory oligonucleotide CpG, useful for producing vaccine formulations for prophylaxis and treatment of cancers, allergy and Alzheimer's disease.
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TCGTCGTTTTGTCGTTTTGTCGTT 24
                                                                                                                                                                                                Immunostimulatory oligonucleotide #4
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                                                                                                     AAC60280 standard; DNA; 24 BP
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99US-00301829.
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Best Local Similarity 100.υ.
And 24; Conservative
                                                                                                                                                                  (first entry)
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5, 2005, 03:27:13

Search completed: August Job time : 1191 secs

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1 TCGTCGTTTTGTCGTT 24

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Sequence 14927, A
Sequence 13872, A
Sequence 12178, A
Sequence 9585, Ap
Sequence 18867, A
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39, Appl
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54.092 Million cell updates/sec
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                                                                                                     5, 2005, 02:53:53 ; Search time 726 Seconds
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/cgn2_6/ptodata/1/ina/5A_COMB.seq:*
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/cgn2_6/ptodata/1/ina/PcTUS_COMB.seq:*
/cgn2_6/ptodata/1/ina/PcTUS_COMB.seq:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd
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-09-252-991A-11803
-08-086-428B-16
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US-08-468-570-16
US-08-290-665A-16
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Sequence 90, Application US/09286098

Batent No. 6218371

Batent No. 6218371

BAPLICANT: Krieg, Arthur M.

APPLICANT: Weiner, George

TITLE OF INVENTION: Methods and Products for Stimulating the
TITLE OF INVENTION: Cytokines

FILE REPERENCE: C1039/7026/HG.

CURRENT FILING DATE: 1999-04-02

EARLIER APPLICATION NUMBER: US 60/080,729

EARLIER FILING DATE: 1998-04-03

NUMBER OF SEQ ID NOS: 105
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                                                                        Sequence 6876, Ap-
Sequence 11864, A-
Sequence 11519, A
Sequence 14993, A
Sequence 72711, A
Sequence 1672, Ap-
Sequence 2784, Ap-
                             162, App
11721, A
12333, A
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Krieg, Arthur M.
APPLICANT: Schwartz, David A.
TITLE OF INVENTION: USE OF UTCLEIC ACIDS CONTAINING
TITLE OF INVENTION: UNBETHYLATED COG DINUCLEOTIDE IN THE TREATMENT OF
TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
TITLE REFERENCE: C1039/7011 J/090,701B
CURRENT APPLICATION NUMBER: U598-02-25
PRIOR APPLICATION UNBER: 60/039,405
PRIOR PILING DATE: 1997-02-28
NUMBER OF SEQ ID NOS: 65
SOFTWARE: FastSEQ for Windows Version 3.0
SEC ID NO 6
LENGTH: 24
              Sequence 16, Ap
Sequence 162, A
Sequence 11721,
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           PCT - US95 - 10396 - 16

US-09 858 - 207A-162

US-09 - 270 - 767 - 11721

US-09 - 270 - 767 - 11731

US-09 - 270 - 767 - 11731

US-09 - 252 - 991A-11864

US-09 - 252 - 991A-11864

US-09 - 949 - 016 - 11519

US-09 - 949 - 016 - 14993

US-09 - 107 - 522A-1672

US-09 - 1134 - 000C-3160

US-09 - 170 - 1707

US-09 - 270 - 767 - 21066

US-09 - 270 - 767 - 21066

US-09 - 270 - 767 - 21361

US-09 - 270 - 767 - 21361
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Matches 24; Conserv
RESULT 2
US-09-286-098-90
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3, Application US/09082649B
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATUG SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/960,774
FILING DATE: 30-October-1997
CLASSIFICATION DATA:
APPLICATION NUMBER: US. Serial No. 6239116 08/738,652
FILING DATE: October 30, 1996
CLASSIFICATION NUMBER: 38,347
APTORNEY/AGENT INFORMATION:
NAME: Haile, Liaa A.
REGISTRATION NUMBER: 38,347
REGISTRATION NUMBER: 38,347
TELECOMMUNICATION NUMBER: 08918/012001
TELECOMMUNICATION NUMBER: 08918/678-5070
TELECOMMUNICATION NOW 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
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TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 24; DB 3; Length 24; ilarity 100.0%; Pred. No. 0.29; Conservative 0; Mismatches 0; Indels
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100.0%; Score 24; DB 3;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 24; Conservative 0; Mismatches
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                   ; OTHER INFORMATION: Synthetic Sequence US-09-286-098-90
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                                                                                                             TYPE: DNA
ORGANISM: Artificial Sequence
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MOLECULE TYPE: CDNA
US-08-960-774-46
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Best Local Similarity
Matches 24; Conserva
                                    SEQ ID NO 90
LENGTH: 24
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RESULT 4 US-09-082-649B-3

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Gaps
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OTHER INFORMATION: Backbone is a phosphorothioate--phosphodiester
OTHER INFORMATION: chimera.
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Sequence 66. Application US/09082649B

Patent No. 6339068

GENERAL INFORMATION:

APPLICANT: Davis, Heather L.

APPLICANT: Schorr, Joachim

APPLICANT: Wi, Tong

TITLE OF INVENTION: Vectors and Methods for Immunization or

TITLE OF INVENTION: Therapeutic Protocols

TITLE OF INVENTION: Therapeutic Protocols

TITLE OF INVENTION: Therapeutic Protocols

CURRENT APPLICATION WHBER: US 60/047,233

FRICA FILING DATE: 1998-05-20

PRICA PAPLICATION NUMBER: US 60/047,233

FRICA FILING DATE: 1997-05-20

NUMBER OF SEQ ID NOS: 85

SOFTWARE: FRESEE (for Windows Version 3.0)

SERVINE FRESEE (FOR Windows Version 3.0)
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                 APPLICANT: Davis, Heather L.
APPLICANT: Krieg, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Schorr, Joachim
APPLICANT: Will Tong
ITILE OF INVENTION: Vectors and Methods for Immunization or
ITILE OF INVENTION: Therapeutic Protocols
ITILE OF INVENTION: WINBER: US/09/082,649B
CURRENT APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 85
SOFTWARE: FastSEQ for Windows Version 3.0
IENGTH: 24
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100.0%; Score 24; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 24; Conservative 0; Mismatches 0; Indels
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Best Local Similarity 100.0
Matches 24; Conservative
GENERAL INFORMATION:
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US-09-082-649B-66
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RESULT 9
US-09-690-921-4
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                                                                                                                                                                                                                                                                     APPLICANT: Schorr, Joachim
APPLICANT: Schorr, Joachim
APPLICANT: Schorr, Joachim
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
FILE REFERENCE: C1039/7025/HCL
CURRENT APPLICATION NUMBER: US/09/325,193A
CURRENT FILING DATE: 1999-06-03
FRIOR APPLICATION NUMBER: US 09/154,614
PRIOR FILING DATE: 1998-03-16
PRIOR APPLICATION NUMBER: US 60/04/703
FRIOR APPLICATION NUMBER: PCT/US98/04703
FRIOR APPLICATION NUMBER: US 60/040,376
PRIOR APPLICATION NUMBER: US 60/040,376
PRIOR APPLICATION NUMBER: 1997-03-10
NUMBER OF SEQ ID NOS: 98
SOFTWARE: FASTSEQ for Windows Version 3.0
LENGTH:: 24
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IS-equence 84, Application US/09191170

Sequence 84, Application US/09191170

Patent No. 6429199

GENERAL INFORMATION:

APPLICANT: Hartmann, Gunther

TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

TITLE OF INVENTION: Temminostimulatory Nucleic Acid Molecules

TITLE OF INVENTION: Activating Dendritic Cells

FILE REFERENCE: C1039/7017

CURRENT PELLING DATE: 1998-11-13

EARLIER APPLICATION NUMBER: US 08/960, 774

EARLIER APPLICATION NUMBER: US 08/738,652

EARLIER APPLICATION NUMBER: US 08/38,652

EARLIER APPLICATION NUMBER: US 08/38,652

EARLIER APPLICATION NUMBER: US 08/38,652

EARLIER APPLICATION NUMBER: US 08/36,063

EARLIER APPLICATION NUMBER: US 08/36,063

EARLIER PILLING DATE: 1996-10-30

SEALIER PILLING DATE: 1994-07-15

NUMBER OF SEQ ID NOS: 99

SOFTWARE: FastSEQ for Windows Version 3.0

LENGTH: 24

LENGTH: 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
, OTHER INFORMATION: Synthetic Oligonucleotide US-09-325-193A-77
                                                                                                                                                                                           ; Sequence 77, Application US/09325193A; Patent No. 6406705; GENERAL INFORMATION:
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ORGANISM: Artificial Sequence
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Best Local Similarity
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GREERAL INFORMATION:
APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
TITLE OF INVENTION: LOT Activating Dendritic Cells
TITLE OF INVENTION: LOT Activating Dendritic Cells
FILE REPERENCE: C1039/7017
CURRENT APPLICATION NUMBER: US/09/191,170
CURRENT PILING DATE: 1998-11-13
EARLIER APPLICATION NUMBER: US 08/738,652
EARLIER FILING DATE: 1997-10-30
EARLIER APPLICATION NUMBER: US 08/738,652
EARLIER APPLICATION NUMBER: US 08/738,652
EARLIER APPLICATION NUMBER: US 08/736,063
EARLIER APPLICATION NUMBER: US 08/736,063
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 99
SOFTWARE: FASTSEQ for Windows Version 3.0
LENGTH: 24
Score 24; DB 3; Length 24;
Pred. No. 0.29;
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                                                      0; Mismatches
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100.0%; Pred. No. (
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; Sequence 95, Application US/09191170
; Patent No. 6429199
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       Query Match
Best Local Similarity 100.0%;
Matches 24; Conservative 0;
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LOCATION: (2)...(2)
OTHER INFORMATION: m5c
FEATURE:
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OTHER INFORMATION: m5c
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APPLICANT:
APPLICANT:
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OTHER INFORMATION: Backbone is a phosphorothioate--phosphodiester;
OTHER INFORMATION: chimera.
US-09-965-101-66
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Sequence 66, Application US/09965101

Patent No. 681957

GENERAL INFORMATION:

APPLICANT: Exieg, Arthur M.

APPLICANT: Schorr, Joachim

APPLICANT: Wu, Tong

TITLE OF INVENTION: Therapeutic Protocols

FILE REFERENCE: C1039/7057 (HCL/MAT)

CURRENT APPLICATION NUMBER: US/09/965,101

CURRENT FILING DATE: 1999-05-20

PRIOR PLING DATE: 1999-05-20

PRIOR PLING DATE: 1997-05-20

PRIOR PLING DATE: 1997-05-20

PRIOR FILING DATE: 1997-05-20

MUMBER OF SEQ ID NOS: 84

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 66

LENGHI 24

TVPF: NANA
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7057 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/965,101
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: US 09/082,649
PRIOR FILING DATE: 1998-05-20
PRIOR FILING DATE: 1998-05-20
PRIOR FILING DATE: 1997-05-20
PRIOR PRILING DATE: 1997-05-20
PRIOR PRILING DATE: 1997-05-20
PRIOR FILING DATE: 1997-05-30
NUMBER OF SEQ ID NOS: 84
SOSTWARE: FRSELEG for Windows Version 3.0
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; LOCATION: (0)...(0)
; COFFER INFORMATION: Has a phosphorothioate backbone.
US-09-965-101-3
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Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 24; Conservative 0; Mismatches
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Best Local Similarity 100.0
Matches 24; Conservative
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LENGTH: 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INCORPATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Methods of Treating Cancer Using
TITLE OF INVENTION: Immunostimulatory Oligonucleotides
FILE REFERENCE: C1039/7021/HCL
CURRENT APPLICATION NUMBER: U$/09/337,619
CURRENT APPLICATION NUMBER: U$/09/337,619
EARLIER FILING DATE: 1997-10-30
EARLIER FILING DATE: 1997-10-30
EARLIER FILING DATE: 1996-10-30
EARLIER FILING DATE: 1996-10-30
EARLIER FILING DATE: 1996-10-37
EARLIER APPLICATION NUMBER: U$ 08/386,063
EARLIER FILING DATE: 1996-0-07
EARLIER FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 123
SOFTWARE: FastSEQ for Windows Version 3.0
: LENGTH: 24
                  FILE REFERENCE: B45181-1
CURRENT APPLICATION NUMBER: US/09/690,921
CURRENT FILING DATE: 2000-10-18
PRIOR APPLICATION NUMBER: PCT/ED00/02920
PRIOR FILING DATE: 1000-04-04
PRIOR FILING DATE: 1999-04-29
PRIOR PILING DATE: 1999-04-19
PRIOR FILING DATE: 1999-04-19
NUMBER OF SEQ ID NOS: 5
NOFTWARE: FastSEQ for Windows Version 3.0
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Patent No. 6653292
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA ORGANISM: Artificial Sequence
  Vaccines
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Best Local Similarity 100.0
...rhes 24; Conservative
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Matches 24; Conserv
  TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                 ; TYPE: DNA
; ORGANISM: Human
US-09-690-921-4
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US-09-965-101-3
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LENGTH: 24
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APPLICANT: Krieg, Arthur M.
APPLICANT: Schort, Joachim
APPLICANT: Schort, Joachim
APPLICANT: Schort, Joachim
APPLICANT: Schort, Joachim
TITLE OF INVENTION: Vectors and Methods for Immunization or
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7009
CURRENT APPLICATION NUMBER: US/09/082,649B
CURRENT FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR PILING DATE: 1997-05-20
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 85
SOFWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 15
LENGTH: 52
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APPLICANT: Krieg, Arthur M.
APPLICANT: Krieg, Arthur M.
APPLICANT: Schort, Joachim
APPLICANT: Schort, Joachim
APPLICANT: Schort, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
TITLE OF INVENTION: Therapeutic Protocols
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7057 (HCL/MAT)
CURRENT FILING DATE: 2001-09-26
PRIOR FILING DATE: 1998-05-20
PRIOR PELLING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSEQ for Windows Version 3.0
IENGTH::52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 100.0%; Score 24; DB 3; Length 52; Best Local Similarity 100.0%; Pred. No. 0.32; Matches 24; Conservative 0; Mismatches 0; Indels
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OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-15
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TCGTCGTTTTGTCGTTTTGTCGTT 24
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                                                                                                                                            Sequence 15, Application US/09082649B
Patent No. 6339068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; Sequence 15, Application US/09965101; Patent No. 6821957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
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Best Local Similarity
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  Indels
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APPLICANT: Krieg, Arthur M.
APPLICANT: Krieg, Arthur M.
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Methods of Treating Cancer Using
TITLE OF INVENTION: Immunostimulatory Oligonucleotides
TITLE OF INVENTION IMMEST: US 09/337,619
FILE REFERENCE: C1039/7021/HCL
CURRENT FILING DATE: 1999-06-21
EARLIER APPLICATION NUMBER: US 08/960,774
EARLIER PELING DATE: 1999-10-30
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER APPLICATION NUMBER: US 08/36,063
EARLIER APPLICATION NUMBER: US 08/36,063
EARLIER PILING DATE: 1995-02-07
EARLIER PILING DATE: 1995-02-07
EARLIER PILING DATE: 1995-02-07
EARLIER PILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 123
SOFTWARE: FastSEQ for Windows Version 3.0
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Best Local Similarity 100.0%; Pred. No. 0.75;
Matches 23; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Synthetic Oligonucleotide US-09-337-619-123
0; Mismatches
                                                      1 TCGTCGTTTTGTCGTTTTGTCGTT 24
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Patent No. 6653292
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US-09-337-619-123
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Search completed: August 5, 2005, 06:25:33 Job time : 732 secs

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Sequence 23, Appl Sequence 729, App

US-09-927-422A-23 US-09-888-326-729

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                                                                                                                                                                                                                                                                      5, 2005, 03:53:27 ; Search time 3392 Seconds (without alignments) 45.866 Million cell updates/sec
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1: /cgn2_6/ptodata/2/pubpna/USO7_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/DSO7_PUBCOMB.seq:*
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5: /cgn2_6/ptodata/2/pubpna/USO6_PUBCOMB.seq:*
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13: /cgn2_6/ptodata/2/pubpna/USO8_NEW_PUB.seq:*
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20: /cgn2_6/ptodata/2/pubpna/USO8_SUBCOMB.seq:*
20: /cgn2_6/ptodata/2/pubpna/USO8_SUBCOMB.seq:*
20: /cgn2_
                                      GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 1.0
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seq length: 200000000
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Maximum DB E
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Sequence 4, Appli Sequence 90, Appl Sequence 77, Appl Sequence 77, Appl Sequence 77, Appl Sequence 147, Appl Sequence 4, Appli Sequence 4, Appli Description US-09-760-506-4 US-09-768-012-4 US-09-884-468-90 US-09-800-266A-77 US-09-895-007A-77 US-09-920-313-77 US-09-920-313-147 ü DB 0000000 Length 4444444 Query 1000.0 1000.0 1000.0 1000.0 Score 4444444 264597

DB 9; Length 24;

100.0%; Score 24;

Query Match

| Sequence 727, App Sequence 731, App Sequence 731, App Sequence 73, App Sequence 29, Appl Sequence 64, Appl Sequence 246, Appl Sequence 246, Appl Sequence 273, Appl Sequence 350, Appl Sequence 350, Appl Sequence 413, Appl Sequence 64, Appl Sequence 964, Appl Sequence 964, Appl Sequence 964, Appl Sequence 965, Appl Sequence 965, Appl Sequence 113, Appl Sequence 273, Appl Sequence 266, Appl Sequence 266, Appl Sequence 266, Appl Sequence 266, Appl Sequence 273, Appl Sequence 266, Appl Sequence 266, Appl Sequence 273, Appl Sequence 273, Appl Sequence 273, Appl Sequence 273, Appl Sequence 273, Appl Sequence 273, Appl Sequence 370, Appl Sequence 373, Appl | 999669 99669 977, | Compositions of CpG and quence: Motif |
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| US-09-888-326-737 US-09-888-326-731 US-09-888-326-731 US-09-931-583-29 US-09-931-583-29 US-09-931-583-29 US-09-931-583-29 US-09-927-884-14 US-09-776-479-246 US-09-776-479-262 US-09-776-479-300 US-09-776-479-964 US-09-776-479-965 US-09-776-479-965 US-09-776-479-965 US-09-776-479-965 US-09-776-479-965 US-09-776-479-965 US-09-776-479-965 US-09-776-479-965 US-09-776-479-965 US-09-776-479-967 US-09-776-479-967 US-09-776-479-967 US-09-776-479-967 US-09-776-479-967 US-09-776-479-967 US-09-776-479-967 US-09-776-479-967 US-09-776-479-300 US-09-776-479-300 US-09-776-479-300 US-09-776-479-312 | US-09-776-479-413 US-09-776-479-964 US-09-776-479-965 US-09-776-479-965 US-09-776-479-967 US-09-965-101-3 US-09-965-101-6 US-10-023-908-77 US-10-074-956-3 | 7-Stimulating ethods Thereof 760,506 53 10 10 Artificial Se |
| 7 | · • • • • • • • • • • • | on US/09760: 110034330A1 110034330A1 110034330A1 1100346 1100346 1100346 1100346 1100346 1100346 1100346 1100346 1100346 11003436 11003436 11003436 11003436 11003436 11003436 11003436 11003436 11003436 11003436 11003436 |
| 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2 4 4 1 100 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . | RESULT. US-09-760-566-4 Sequence 4, Application US/09766566 Publication No. US20010034330A1 GENERAL INFORMATION: TITLE OF INVENTION: Innate Immunity TITLE OF INVENTION: Saponin and MR FILE REFERENCE: 8449-153-99 CURRENT FILING DATE: 2002-01-12 PRIOR PRILOR APPLICATION NUMBER: 60/200, 89 PRIOR PILING DATE: 2000-01-13 PRIOR PILING DATE: 2000-01-13 PRIOR PILING DATE: 1999-04-08 PRIOR FILING DATE: 1999-04-08 NUMBER OF SEQ ID NOS: 6 SOFTWARE: PATENTING DATE: 1999-08-10 NUMBER OF SEQ ID NOS: 6 SOFTHAN ARTIFICIAL SEQUENCE FEATURE: DAA TYPE: DAA |

Gaps

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Query Match
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 24; Conservative 0; Mismatches 0; Indels
                                                    CTHER INFORMATION: Synthetic Sequence US-09-824-468-90
             ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                               US-09-800-266A-77
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TITLE OF INVENTION: Methods and Products for Stimulating the
TITLE OF INVENTION: Cytokines
FILE REPERENCE: C1039/7026/HCL
CURRENT APPLICATION NUMBER: 2001-04-02
PRIOR FILING DATE: 2001-04-02
PRIOR FILING DATE: 1999-04-02
NUMBER OF SEQ ID NOS: 105
SOFTWARE: Fastesc for Windows Version 3.0
LENGTH: 24
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| Sequence 4, Application US/09768012
| Patent No. US2001004416A1
| GENERAL INPORMATION:
| APPLICANT: Davis, Heather L.
| APPLICANT: McCluskie, Michael J.
| TITLE OF INVENTION: Immunostimulatory Nucleic Acids for TITLE OF INVENTION: Inducing a Th2 Immune Response | FILE REPERENCE: C1040/7010/HCL/MAT | CURRENT APPLICATION NUMBER: US/09/768,012 | CURRENT APPLICATION NUMBER: US 60/177,461 | PRIOR PILING DATE: 2000-01-20 | NUMBER OF SEQ ID NOS: 4 | SOFTWARE: FastSEQ for Windows Version 3.0 | SEQ ID NO 4 | LENTH: 24
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                                0; Indels
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NAME/KEY: modified base
LOCATION: (2)...(2)
OTHER INFORMATION: Cytosine is unmethylated.
NAME/KEY: modified base
LOCATION: (5)...(5)
OTHER INFORMATION: Cytosine is unmethylated.
NAME/KEY: modified base
LOCATION: (13)...(13)
OTHER INFORMATION: Cytosine is unmethylated.
LOCATION: (13)...(13)
OTHER INFORMATION: Cytosine is unmethylated.
             Pred. No. 3.6;
100.0%; Preu. ...
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. Sequence 90, Application US/09824468
. Patent No. US20020064515A1
. GENERAL INFORMATION:
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ORGANISM: Artificial Sequence
        Best Local Similarity 100.
Matches 24; Conservative
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Best Local Similarity
Matches 24; Conserva
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US-09-768-012-4
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Sequence 77, Application US/09800266A
; Sequence 77, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FSELSEQ for Windows Version 3.0
; SEQ ID NO 77
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APPLICANT: Bratzler, Robert L.
APPLICANT: Bratzler, Robert L.
APPLICANT: Bretzen, Deanna M.
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
FILE REFERENCE: C1041/7014 (AMS)
CURRENT APPLICATION NUMBER: US/09/895,007A
CURRENT FILING DATE: 2001-06-28
PRIOR APPLICATION NUMBER: US 60/214,368
NUMBER OF SEQ ID NOS: 133
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 77
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1 TCGTCGTTTTGTCGTTTTGTCGTT 24
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ORGANISM: Artificial Sequence
FEATURE:
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ORGANISM: Artificial Sequence
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Similarity

Local

Query Match

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, LACATION: (0)...(0) ...
) OTHER INFORMATION: phosphorothicate backbone US-09-888-326-729
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                                                                           Sequence 23, Application US/09927422A Publication No. US20030022852A1 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                APPLICANT: Petersen, Deanna M.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Nucleic Acids for the Prevention and
TITLE OF INVENTION: Treatment of Gastric Ulcers
FILE REPERENCE: 01037/7019 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/920,313
CURRENT APPLICATION NUMBER: US 60/222,248
PRIOR APPLICATION NUMBER: US 60/222,248
NUMBER OF SEQ ID NOS: 148
SOFTWARE: FastSEQ for Windows Version 3.0
: SEQ ID NO 77
100.0%; Score 24; DB 9; Length 24; larity 100.0%; Pred. No. 3.6; Conservative 0; Mismatches 0; Indels
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Fublication No. US20020198165A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
TITLE OF INVENTION: Treatment of Gastric Ulcers
FILE REFERENCE: C1037/7019 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/920,313
CURRENT APPLICATION NUMBER: US/09/920,313
CURRENT FILING DATE: 2001-08-01
PRIOR PPLICATION NUMBER: US 60/222,248
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Pred. No. 3.6;
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100.0%; Pred. No. ...
0; Mismatches
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1 Similarity 100.0%; Pred. No. 3.6
24; Conservative 0; Mismatches
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SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 147
LENGTH: 24
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COTHER INFORMATION: Synthetic Sequence US-09-920-313-77
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Publication No. US20020198165A1
GENERAL INFORMATION:
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Matches 24; Conservative
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Best Local Similarity
Matches 24; Conserv
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                                        24;
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                                        Matches
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Gaps Gaps APPLICANT: Van Nest, Gary
APPLICANT: Van Nest, Gary
APPLICANT: Tuck, Stephen
APPLICANT: Fearon, Karen L.
APPLICANT: Fearon, Karen L.
APPLICANT: Dina, Dino
TITLE OF INVENTION: BIODESRADABLE IMMUNOMODULATORY
TITLE OF INVENTION: PORMULATIONS AND METHODS FOR USE THEREOF
FILE REFERENCE: 37788001420
CURRENT FILING DATE: 2001-08-10
FRIOR APPLICATION NUMBER: U.S. 09/802,359
FRIOR PILING DATE: 2001-03-09
FRIOR FILING DATE: 2001-03-09
FRIOR FILING DATE: 2001-03-09
FRIOR FILING DATE: 2001-03-09
FRIOR FILING DATE: 2000-03-10
FRIOR FILING DATE: 24
FRIOR FILING DATE: 24
FRIOR FILING DATE: 24
FRIOR FILING DATE: 24 ö ö Sequence 729, Application US/0988326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Hartmann, George
; TITLE OF INVENTION: Cell Lysis and Treating Cancer;
; TITLE OF INVENTION: Cell Lysis and Treating Cancer;
; TITLE OF INVENTION: Cell Lysis and Treating Cancer;
; CURRENT APPLICATION WHERE: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FRASESQ for Windows Version 3.0
; TANDER OF SESTER Length 24; Length 24; Indels Indels ch 100.0%; Score 24; DB 10; S. Similarity 100.0%; Pred. No. 3.6; 24; Conservative 0; Mismatches 0; Query Match 100.0%; Score 24; DB 10; Best Local Similarity 100.0%; Pred. No. 3.6; Matches 24; Conservative 0; Mismatches 0; ; OTHER INFORMATION: Polynucleotide containing CG US-09-927-422A-23

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US-09-888-326-732
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US-09-888-326-733
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LENGTH: 24
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NAME/KEY: misc_feature
LOCATION: (0) ...(0)
OTHER INFORMATION: chimeric phosphorothioate/phosphodiester backbone
OTHER INFORMATION: with phosphorothioate at 5' and 3' ends
US-09-888-326-730
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                                                                                        APPLICANT: Weiner, George
APPLICANT: Weiner, George
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Methods for Enhancing Cancer
TITLE OF INVENTION: Cell Lysis and Treating Cancer
FILE REFERENCE: C1039/7052 (AMS)
CURRENT APPLICATION NUMBER: US/09/888,326
CURRENT APPLICATION NUMBER: US 60/213,346
PRIOR FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 848
SOFTWARE: FastSEQ for Windows Version 3.0
LENGTH: 24
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APPLICANT: Weiner, George
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Cell 1/9sis and Treating Cancer
TITLE OF INVENTION: Cell 1/9sis and Treating Cancer
FILE REFERENCE: C1039/7052 (AMS)
CURRENT APPLICATION NUMBER: US/09/888,326
CURRENT APPLICATION NUMBER: US 60/213,346
PRIOR FILING DATE: 2000-06-22
PRIOR FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 848
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 731
LENTH: 24
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100.0%; Pred. No. 3.6;
tive 0; Mismatches 0;
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LOCATION: (0)...(0)

OTHER INFORMATION: phosphodiester backbone

US-09-888-326-731
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                         Sequence 730, Application US/09888326
Publication No. US20030026801A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Artificial Sequence
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Best Local Similarity 100.
Matches 24; Conservative
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nes 24; Conserv
US-09-888-326-730
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Sequence 712, Application US/0988326
| Bublication No. US20030026801A1
| GENERAL INFORMATION:
| APPLICANT: Weiner, George
| APPLICANT: Weiner, George
| TITLE OF INVENTION: Gell Lysis and Treating Cancer
| TITLE OF INVENTION: Gell Lysis and Treating Cancer
| FILE REFERENCE: C1039/7052 (AMS)
| CURRENT APPLICATION NUMBER: US/09/888,326
| FILE REFERENCE: C1039/7052 (AMS)
| FILE REFERENCE: C1030-06-22 (AMS)
| SEQ ID NO 732
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APPLICANT: Wainer, George
APPLICANT: Wainer, Gunther
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Cell Lysis and Treating Cancer
FILLE REFERENCE: C1039/7052 (AWS)
CURRENT APPLICATION NUMBER: US/09/888,326
CURRENT FILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: US 60/213,346
PRIOR FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 848
SOFTWARE: FastSEQ for Windows Version 3.0
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OTHER INFORMATION: Synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0) ... (0)
OTHER INFORMATION: phosphodiester backbone
NAME/KEY: misc_feature
LOCATION: (24)... (24)
OTHER INFORMATION: biotinylated at 3' end
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Best Local Similarity 100.0
Matches 24, Conservative
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                                                                                                                                     Sequence 29, Application US/09931583
; Bublication No. US20030050263A1
; GENERAL INFORMATION:
    APPLICANT: Krieg, Arthur
    APPLICANT: Kliman, Dennis
    APPLICANT: Kliman, Dennis
    APPLICANT: Kliman, Dennis
    APPLICANT: Seliaberg, Alfred
    TITLE OF INVENTION: Methods and Products for Treating HIV Infection
    TITLE OF INVENTION: Methods and Products for Treating HIV Infection
    FILE REPERENCE: C1039/7053 (HCL.)
    CURRENT PLLING DATE: 2001-08-16
    PRIOR APPLICATION NUMBER: US 08/276,358
    PRIOR APPLICATION NUMBER: US 09/415,142
    PRIOR APPLICATION NUMBER: US 09/415,142
    PRIOR PILING DATE: 1939-10-09
    NUMBER OF SEQ ID NOS: 75
    SEQ ID NO 29
    LENGTH: 24
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US-09-931-583-38
Sequence 38, Application US/09931583
Sequence 38, Application WS/09931583
Publication No. US20030050263A1
GENERAL INFORMATION:
APPLICANT: Klinman, Dennis
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred
TILLE OF INVENTION: Methods and Products for Treating HIV Infection
FILE REFERENCE: C10397053 (HCL)
CURRENT APPLICATION NUMBER: US/09/931,583
CURRENT PILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 09/415,142
PRIOR PELING DATE: 1999-10-09
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Version 3.0
SEQ ID NO 38
LIENGTH: 24
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Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 24; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: misc feature; OTHER INFORMATION: Synthetic Oligonucleotide US-09-931-583-29
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; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-38
1 TCGTCGTTTTGTCGTTTTGTCGTT 24
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ORGANISM: Artificial Sequence
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Best Local Similarity 100.
Matches 24; Conservative
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Search completed: August 5, 2005, 10:12:22 Job time : 3396 secs

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Copyright (c) 1993 - 2005 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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| cgn2_6/ptodata/1/pna/US6058_COMB.seq:*
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Sequence 5, Application PC/TUS0002413

Sequence 5, Application PC/TUS0002413

GENERAL INFORMATION:

APPLICANT: Wirdinia Commonwealth University

APPLICANT: BioCache Pharmaceuticals, LLC

TITLE DF INVENTION: Advanced Antigen Presentation Platform

FILE REPRENCE: 052700011a

CURRENT APPLICATION NUMBER: PCT/US00/02413

CURRENT FILING DATE: 1909-02-02

PRIOR PRILING DATE: 1999-02-02

NUMBER OF SEQ ID NOS: 24

SOFTWARE: PatentIn Ver. 2.1

LENGTH: 24
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GENERAL INFORMATION:

APPLICANT: Virginia Commonwealth University
APPLICANT: Virginia Commonwealth University
APPLICANT: Virginia Commonwealth University
APPLICANT: BioCache Pharmaceuticals, LLC
FILE REPERBERS: 0527001ta
CURRENT APPLICATION NUMBER: PCT/US00/02413
CURRENT APPLICATION NUMBER: PCT/US00/02413
CURRENT APPLICATION NUMBER: US 60/118,526
PRIOR APPLICATION NUMBER: US 60/118,526
NUMBER OF SEQ ID NOS: 24

SOFTWARE: PatentIn Ver. 2.1
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GENERAL INFORMATION:
APPLICANT: Viginia Commonwealth University
APPLICANT: BioCache Pharmaceuticals, LLC
TITLE OF INVENTION: Advanced Antigen Presentation Platform
FILE REFERENCE: 05270001ta
CURRENT APPLICATION NUMBER: PCT/US00/02413
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; OTHER INFORMATION: immunostimulating oligonucleotides
PCT-US00-02413-7
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ORGANISM: Artificial Sequence
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Matches 24; Conservative
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GENERAL INFORMATION.
APPLICANT: Coley Pharmaceutical GmbH
APPLICANT: Coley Pharmaceutical GmbH
TITLE OF INVENTION: Methods and Compositions Relating to
TITLE OF INVENTION: Plasmacytoid Dendritic Cells
FILE REFERENCE: C01041.70029
CURRENT APPLICATION NUMBER: PCT/US02/24410A
CURRENT FILING DATE: 2002-08-01
PRIOR PILING DATE: 2002-08-01
NUMBER OF SEQ ID NOS: 1
SOFTWARE: PESES for Windows Version 3.0
SEQ ID NO 1
LENGTH: 24
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red. No. 15;
Mismatches 0; Indels
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GENERAL INFORMATION:
APPLICANT: CHIRON CORPORATION
TITLE OF INVENTION: HCV E1E2 VACCINE COMPOSITIONS
FILE REFERENCE: 2302-17206.40
CURRENT APPLICATION NUMBER: PCT/US02/20676
CURRENT FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 5
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                            100.0%; Score 24; 100.0%; Pred. No.
CURRENT FILING DATE: 2000-02-02
PRIOR APPLICATION NUMBER: US 60/118,526
PRIOR FILING DATE: 1999-02-02
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver: 2.1
SEQ ID NO 17
LENGTH: 24
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ORGANISM: Artificial Sequence
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Best Local Similarity 100.0
Matches 24; Conservative
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LENGTH: 24
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NAME/KEY:
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APPLICANT: Coley Pharmaceutical Group Inc.
APPLICANT: Coley Pharmaceutical GmbH
APPLICANT: Coley Pharmaceutical GmbH
APPLICANT: Coley Pharmaceutical GmbH
APPLICANT: University of Iowa Research Foundation
TITLE OF INVENTION: Combination Motif Immune Stimulatory Oligonucleotides with Improv
TITLE OF INVENTION: Combination Motif Immune Stimulatory Oligonucleotides with Improv
TITLE OF INVENTION: Activity
FILE REFERENCE: CO1039/70063WO (HCL/AWS)
CURRENT APPLICATION NUMBER: US 60/313,273
PRIOR APPLICATION NUMBER: US 60/313,273
PRIOR APPLICATION NUMBER: US 60/393,952
PRIOR FILING DATE: 2002-07-03
NUMBER OF SEQ ID NOS: 81
SEQ ID NO 39
LENGTH: 24
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APPLICANT: Coley Pharmaceutical GmbH
TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
CURRENT APPLICATION NUMBER: PCT/US02/31460
CURRENT FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 117
SOFTWARE: Patentin version 3.1
SEQ ID NO 15
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                                                                                  Query Match 100.0%; Score 24; DB 1; Length 24; Best Local Similarity 100.0%; Pred. No. 15; Matches 24; Conservative 0; Mismatches 0; Indels
; OTHER INFORMATION: Synthetic Oligonucleotide PCT-US02-24410A-1
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ORGANISM: Artificial Sequence
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PCT-US99-09863-77
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Sequence 1, Application PC/TUS0233051A
GENERAL INFORMATION:
APPLICANT: University of Iowa Research Foundation
APPLICANT: Coley Pharmaceutical GmbH
APPLICANT: Coley Pharmaceutical Group, Inc.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR ENHANCING IMMUNE RESPONSES USING
TITLE OF INVENTION: IMIDAZOQUINOLINE COMPOUNDS
TITLE OF INVENTION: IMIDAZOQUINOLINE COMPOUNDS
TITLE OF ILVENTION NUMBER: PCT/US02/33051A
CURRENT APPLICATION NUMBER: PCT/US02/33051A
CURRENT FILING DATE: 2002-10-15
PRIOR FILING DATE: 2001-10-12
NUMBER OF SEQ ID NOS: 31
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GENERAL INFORMATION:
APPLICANT: COLEY PHARMACEULICAL GmbH
TITLE OF INVENTION: TOLL-LIKE RECEPTOR 3 SIGNALING AGONISTS AND ANTAGONISTS
FILE REFERENCE: C01041.70031
CURRENT APPLICATION NUMBER: PCT/US02/31460
CURRENT PRILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 117
SOCTHARE: Patentin version 3.1
SEQ ID NO 37
LENGTH: 24
                                                             APPLICANT: COLOY Pharmaceutical GmbH
TITLE OF INVENTION: TOLL-LIKE RECEPTOR 3 SIGNALING AGONISTS AND ANTAGONISTS
FILE REFERENCE: C01041.70031
CURRENT APPLICATION NUMBER: PCT/US02/31460
NUMBER OF SEQ ID NOS: 117
SOFTWARE: Patentin version 3.1
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                                                                                                                                                                                                                                                                                                        , OTHER INFORMATION: Synthetic oligonucleotide PCT-US02-31460-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Synthetic oligonucleotide PCT-US02-31460-37
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TT.US02-31460-36
Sequence 36, Application PC/TUS0231460
GENERAL INFORMATION:
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ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                            TYPE: DNA ORGANISM: Artificial sequence
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hes 24; Conservative
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nes 24; Conservative
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                                                                                                                                                                                                                SEQ ID NO 36
LENGTH: 24
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                                                                                                                                                                                                                                           Query Match 100.0%; Score 24; DB 1; Length 24; Best Local Similarity 100.0%; Pred. No. 15; Matches 24; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCT-US97-19791-46
; Sequence 46, Application PC/TUS9719791
; GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID
TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08/738,652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
PAPPLICATION NUMBER: PCT/US97/19791
FILING DATE: 30-October-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. Serial No. 06
FILING DATE: October 30, 1996
CLASSIFICATION:
ATTONNEY, AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 08918/012001
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08918/012001
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 24
                                                                                 TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                   FEATURE: OTHER INFORMATION: Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24 base pairs
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STRANDEDNESS: single
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Search completed: August 5, 2005, 07:11:42
Job time : 2756 secs
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                                         APPLICANT: University of Iowa Research Foundation
APPLICANT: Ottawa Civic Hospital Loeb Research Institute
APPLICANT: Ottawa Civic Hospital Loeb Research Institute
APPLICANT: United States of America as represented by the Secretary of the Navy
TITLE OF INVENTION: Methods for the Prevention and Treatment
TITLE OF INVENTION: Of Parasitic Infections and Related Diseases Using CpG
FILE REPERBACE: C1039/7027WG/HCL
CURRENT APPLICATION NUMBER: PCT/US99/09863
CURRENT APPLICATION NUMBER: DCT/US99/09863
EARLIER FILING DATE: 1999-05-06
EARLIER FILING DATE: 1998-06-06
NUMBER OF SEQ ID NOS: 92
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 77
LENGTH: 24
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GENERAL INFORMATION:
APPLICANT: Sokoll, Kenneth K.
TITLE OF INVENTION: Stabilized Synthetic Immunogen Delivery System
TITLE REFERENCE: Immunogen Delivery System
CURRENT APPLICATION NUMBER: PCT/US03/04711A
CURRENT PILING DATE: 2003-04-04
PRIOR FILING DATE: 2002-02-14
NUMBER OF SEQ ID NOS: 13
SEQ ID NO 2.
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TITLE OF INVENTION: Stabilized Synthetic Immunogen Delivery System
FILE REFERENCE: Immunogen Delivery System
CURRENT APPLICATION NUMBER: PCT/USO3/04711A
CURRENT PILING DATE: 2003-04-04
PRIOR APPLICATION NUMBER: US 10/076674
PRIOR FILING DATE: 2002-02-14
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100.0%; Pred. No. 15;
ive 0; Mismatches 0
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Sequence 77, Application PC/TUS9909863
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA ORGANISM: Artificial Sequence
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Best Local Similarity 100.
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Best Local Similarity 100.
Matches 24; Conservative
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APPLICANT: Syntherica Corporation
APPLICANT: Syntherica Corporation
APPLICANT: Syntherica Corporation
APPLICANT: Friedman, Steve
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SURROGATE
TITLE OF INVENTION: ANTHEODY MODULATION OF AN IMMUNE RESPONSE AND TRANSPORT
FILE REFERENCE: 35796/259000
CURRENT APPLICATION WUMBER: COT/0509/05000A
CURRENT FILING DATE: 2002-02-19
PRIOR APPLICATION NUMBER: 60/358,459
PRIOR FILING DATE: 2002-02-19
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 17
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; Pred. No. 15;
0; Mismatches
                                                                                                                                        FEATURE: OTHER INFORMATION: synthetic oligonucleotide
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Best Local Similarity 100.0%;
Matches 24; Conservative 0
NUMBER OF SEQ ID NOS: 13
SOFTWARE: Patentin version 3.1
SEQ ID NO 3
LENGTH: 24
                                                                                          TYPE: DNA
ORGANISM: Artificial Sequence
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nes 24; Conserv
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Sequence 8, Appli

US-11-183-253-8

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1: /cgn2_6/ptodata/2/pna/PCT_NEW_COMB.seq:*
2: /cgn2_6/ptodata/2/pna/PCT_NEW_COMB.seq:*
3: /cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq:*
4: /cgn2_6/ptodata/2/pna/US07_NEW_COMB.seq:*
5: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*
7: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*
7: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*
7: /cgn2_6/ptodata/2/pna/US09_NEW_COMB.seq:*
8: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*
9: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*
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11: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq2:*
13: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq6:*
14: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq6:*
15: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq6:*
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18: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq9:*
18: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq9:*
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18: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq9:*
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/cgn2_6/ptodata/2/pna/US11_NEW_COMB.seq2:*
/cgn2_6/ptodata/2/pna/US11_NEW_COMB.seq3:*
/cgn2_6/ptodata/2/pna/US11_NEW_COMB.seq4:*
/cgn2_6/ptodata/2/pna/US11_NEW_COMB.seq4:*
/cgn2_6/ptodata/2/pna/US11_NEW_COMB.seq5:*
                              GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21945288 segs, 6339366203 residues
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                          OM nucleic - nucleic search, using sw model
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Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                    US-09-888-326A-729
24
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Maximum DB seq length: 200000000
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Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| | | Description | Sequence 2, Appli | Sequence 22, Appl | Sequence 77, Appl | Sequence 10, Appl | Sequence 17, Appl | Sequence 65, Appl | Sequence 47, Appl | Sequence 7, Appli | Sequence 27, Appl | Sequence 2, Appli |
|---|--------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | ID | PCT-US05-02594-2 | US-10-497-591A-22 | US-10-492-002-77 | US-10-371-116C-10 | US-10-873-853A-17 | US-10-526-060-65 | US-10-526-151-47 | US-10-963-999-7 | US-10-529-931-27 | US-11-183-253-2 |
| | | 80 | 7 | 80 | œ | æ | 10 | ። | 11 | Ξ | 1 | 18 |
| | | Match Length DB ID | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| ф | Query | Match | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | | Score | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | Result | No. | - | 7 | m | 4 | S | 9 | 7 | œ | σ | 10 |

RESULT 2

| sednence s | Sequence 1. | Sequence 1 | Sequence 8, | Seguence 2, | Sequence 14 | Sequence 26 | Sequence 3. | Sequence 11 | Sequence 13 | Sequence 90 | Sequence 23 | Sequence 29 | Sequence 25 | Sequence 34 | Sequence 34 | Sequence 35 | Sequence 1. | Seguence 5, | Sequence 57 | Sequence 53 | Sequence 10 | Sequence 10 | Sequence 1(| | ALIGNMENTS | | | | | TNG TRRITABLE BOWEL | | 9 | 4AC20 | | | • | O. 4. | | | | sized oligonucleotide | . 60 | No. 3.8; | matches 0; indels 0; Gaps 0; | 4 | 4 | |
|------------|-------------|------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------------|-----------------------------|----------------|----------------|--------------|--------------------------|--------------------------------|---|-------------|---------------|---------------|---------------|-------------|---|-------------|------------|--------------------------------|------------|-----------------|------------------------------|-------------------------|-----------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | ALIG | | 30502594 | | | DANIEL S FOR TREATING | | ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | CT/USUS/UZS | 541,861 | _ | ď | 00 | | | Ð | ly synthesized | ď | Pred | 0; M | GTCGTT 24 | Greer 24 | |
| | | | | 24 19 | | | | | | | | | | | | | | | | | | | | | | | ion PC/TUS0502 | | | METHODS I | SYNDROM | L-314WO | NUMBER: 1 | UMBER: 60, | 2004-02-0 | S: 2 | or windows | | | al sequenc | chemically | 50 | ilarity 100.0%; | rvative | CGTCGTTTTGTCGTTTTGTCGTT | TTGTCGTTT | |
| 000 | | 100 | 100 | 100.0 | 200 | 100 | 001 | 100 | 100 | 100 | 100 | 1001 | 100 | 001 | 100 | 100 | 1001 | 100 | 100 | 001 | 100 | 100 | 001 | 1001 | | ~ | Applicat | RMATION: | RAZ, EYA | VENTION. | VENTION: | NCE: UCA | TNG DATE | CATION N | G DATE: | EQ ID NO | astseQ i | | | Artiricial | INFORMATION: 2594-2 | | Ë | | TCGTCGTT | rcercerr | |
| 10 | 3 C | 4. 7 | 1 73 10 10 | 17 24 | . 6 | 0, | 4 C | . 20 | 4-ru | 9 | ۲ a | | 0, | 7 7 7 | 3 . | 4.1 | n 0 | 7 | 800 | | 1 2 | 2.0 | w 4 | . T | | RESULT 1 PCT-11805-02594 | Sequence 2, | , GENERAL INFO | , APPLICANT: | , APPLICANT: | ; TITLE OF INVENTION: SYNDROME | ; FILE REFERE | CURRENT APP | , PRIOR APPLI | , PRIOR FILIN | , NUMBER OF S | SEO ID NO 2 |) | ; TYPE: DNA | PEATITRE: | ; OTHER INFO PCT-US05-02594 | Work Water | cal | Matches 24 | 0γ 1 | Db 1 | |

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FEATURE:
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        Sequence 22, Application US/10497591A
GENERAL INFORMATION:
HENDLICANT: SCHELLACK, CAROLA
APPLICANT: SCHELLACK, CAROLA
APPLICANT: LINGNAU, KAREN
APPLICANT: LINGNAU, KAREN
TILLE OF INVENTION IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
FILE REFERENCE: SONN: 04505
CURRENT APPLICATION NUMBER: US/10/497,591A
CURRENT APPLICATION NUMBER: PGT/EP02/13791
PRIOR APPLICATION NUMBER: PGT/EP02/13791
PRIOR APPLICATION NUMBER: A 1924/2001
PRIOR PILING DATE: 2002-12-05
PRIOR PPLING DATE: 2001-12-07
NUMBER OF SEQ ID NOS: 113
SEQ ID NO 22
LENGTH: 24
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GENERAL INFORMATION:
APPLICANT: QAGEN GmbH
TITLE OF INVENTION: CPG FORMULATIONS AND RELATED METHODS
FILE REFERENCE: PA098-PCT
CURRENT APPLICATION NUMBER: US/10/492,002
CURRENT FILING DATE: 2004-04-06
PRIOR APPLICATION NUMBER: US 60/327,734
PRIOR PLING DATE: 20001-10-06
NUMBER OF SEQ ID NOS: 154
NUMBER OF SEQ ID NOS: 154
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100.0%; Score 24; DB 8; Length 24;
Best Local Similarity 100.0%; Pred. No. 3.8;
Matches 24; Conservative 0; Mismatches 0; Indels
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ORGANISM: Artificial Sequence
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Matches 24; Conservative
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ORGANISM: Homo sapiens
US-10-492-002-77
US-10-497-591A-22
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Sequence 10, Application US/10371116C
GENERAL INFORMATION:
APPLICANT: Cohen, Irun R
APPLICANT: Cohen, Irun R
TITLE OF INVENTION: METHODS OF TREATMENT OR PREVENTION OF AUTOIMMUNE DISEASES WITH
TITLE OF INVENTION: CpG-CONTAINING POLYNUCLEOTIDE
FILE REFERENCE: 87534-3900

US-10-371-116C-10

CURRENT APPLICATION NUMBER: US/10/371,116C

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APPLICANT: Wilson, Charles
TITLE OF INVENTION: Stabilized Aptamers to Platelet Derived Growth Factor and Their
TITLE OF INVENTION: Use as Oncology Therapeutics
FILE REFERENCE: 23239-558A CIP
CURRENT APPLICATION NUMBER: US/10/873,853A
CURRENT FILING DATE: 2004-06-21
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100.0%; Score 24; DB 8; Length 24;
Best Local Similarity 100.0%; Pred. No. 3.8;
Matches 24; Conservative 0; Mismatches 0; Indels
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NAME/KEY: misc_feature
NAME/KEY: misc_feature
CCATLON: (1). (24)
OTHER INFORMATION: phosphorothioate backbone
                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: Synthetic oligonucleotide US-10-371-116C-10
CURRENT FILING DATE: 2003-02-24
PRIOR APPLICATION NUMBER: US 60/227,853
PRIOR FILING DATE: 2000-08-25
NUMBER OF SEQ ID NOS: 11
SSCTWARE: Patentin version 3.3
SEQ ID NO 10
LENGTH: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR FILING DATE: 2004-06-24,
PRIOR FILING DATE: 2004-04-21,
PRIOR PELING DATE: 2004-04-21,
PRIOR PELING DATE: 2004-04-21,
PRIOR FILING DATE: 2004-01-21,
PRIOR PELING DATE: 2003-10-21,
PRIOR APPLICATION NUMBER: 10/718,833
PRIOR APPLICATION NUMBER: 60/41,357
PRIOR PELING DATE: 2003-10-21,
PRIOR PELING DATE: 2003-04-15
PRIOR PELING DATE: 2003-04-15
PRIOR APPLICATION NUMBER: 60/463,095
PRIOR FILING DATE: 2003-04-21
PRIOR PELING DATE: 2003-04-21
PRIOR PELING DATE: 2003-04-23
PRIOR PELING DATE: 2003-04-23
PRIOR APPLICATION NUMBER: 60/465,055
PRIOR PELING DATE: 2003-04-23
PRIOR PELING DATE: 2003-04-23
PRIOR PELING DATE: 2003-10-17
PRIOR PELING DATE: 2004-10-16
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SOFTWARE: PatentIn version 3.3
                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Artificial sequence
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Ferguson, Alicia
Grate, Dilara
Keefe, Anthony
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Preiss, Jeffrey
Stanton, Martin
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APPLICANT:
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Sequence 7, Application US/10963999
; Sequence 7, Application US/10963999
; GENERAL INFORMATION:
APPLICANT: Chikh, Ghania
APPLICANT: Chikh, Ghania
APPLICANT: Brodsky, Irina
APPLICANT: Brodsky, Irina
APPLICANT: Raney, Sameersingh G.
APPLICANT: Raney, Sameersingh G.
TITLE OF INVENTION: Antibody Dependent Cellular Cytotoxicity
CURRENT APPLICATION NUMBER: US 60/616,161
PRIOR PELLING DATE: 2004-10-04
PRIOR PILING DATE: 2004-10-04
PRIOR PLING DATE: 2004-02-06
PRIOR PLING DATE: 2003-10-11
NUMBER OF SEQ ID NOS: 33
SOFTWARE: PatentIn version 3.3
SEQ ID NO 7
LENGTH: 24
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0; Mismatches
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ORGANISM: Artificial Sequence
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    24; Conservative
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GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: SHEMAN,

TITLE OF INVENTION: IL-13 ELEMENT AND T CELL EPITOPES, AND ITS THERAPEUTIC USE

TITLE OF INVENTION: IN-13 ELEMENT AND T CELL EPITOPES, AND ITS THERAPEUTIC USE

TITLE OF INVENTION: IN-13 ELEMENT AND T CELL EPITOPES, AND ITS THERAPEUTIC USE

TITLE OF INVENTION: IL-13 ELEMENT AND T CELL EPITOPES, AND ITS THERAPEUTIC USE

TOTRENT APPLICATION NUMBER: US/10/526,060

CURRENT FILING DATE: 2003-02-28

PRIOR FILING DATE: 2003-08-28

PRIOR FILING DATE: 2003-06-28

PRIOR PILING DATE: 2003-02-28

PRIOR PILING DATE: 2003-06-28

NUMBER OF SEQ ID NOS: 68

SOFTWARE: FastSEQ for Windows Version 4.0

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Sequence 47, Application US/10526151

Sequence 47, Application US/10526151

GENERAL INFORMATION:

APPLICANT: ASHMAN, Claire

APPLICANT: ASHMAN, Claire

APPLICANT: BLLIS, Jonathan Henry

TITLE OF INVENTION: VACCINE COMPRISING IL-13 AND AN ADJUVANT

FILE REPERENCE: P649394

CURRENT FILING DATE: 2005-02-28

FRIOR APPLICATION NUMBER: PCT/GB03/003721

PRIOR APPLICATION NUMBER: GB 0304672.9

PRIOR APPLICATION NUMBER: GB 0220211.7

PRIOR APPLICATION NUMBER: GB 0220211.7

PRIOR FILING DATE: 2003-08-30

NUMBER OF SEQ ID NOS: 68

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 47

LENGTH: 24
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US-10-526-151-47
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Pred. No. 3.8;
                                                                                 100.0%; Score 24; DB 10; Length 24; 100.0%; Pred. No. 3.8;
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ORGANISM: Artificial Sequence
                                                                        Query Match
Best Local Similarity 100.0
Matches 24; Conservative
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; ORGANISM: Homo sapien
US-10-526-060-65
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; GENERAL INFORMATION:
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NAME/KEY: misc feature
LOCATION: (1)...(24)
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Best Local Similarity
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US-11-179-008-108
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GENERAL INFORMATION:
APPLICANT: Alluwalia, Navneet K.
APPLICANT: Efler, Susan M.
APPLICANT: Efler, Susan M.
APPLICANT: Davis, Heather L.
APPLICANT: Wollmer L.
CURRENT: ELOR INVENTION: METHODS AND PRODUCTS RELATED TO TREATMENT AND PREVENTION OF
FILE REFERENCE: C1037.70035US0.
CURRENT FILING DATE: 2005-07-15
PRIOR APPLICATION NUMBER: US 10/532,746
PRIOR FILING DATE: 2005-04-26
PRIOR FILING DATE: 2005-10-29
PRIOR FILING DATE: 2003-10-29
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PATENTIN VERSION 3.2
SEQ ID NOS
ELENGTH: 24
                                                                                                                            APPLICANT: ACCOUNTION:
APPLICANT: Efler, Susan M.
APPLICANT: Efler, Susan M.
APPLICANT: Efler, Susan M.
APPLICANT: Beler, Susan M.
APPLICANT: Design M.
APPLICANT: Design M.
APPLICANT: Olimer, Joerg
TITLE OF INVENTION: METHODS AND PRODUCTS RELATED TO TREATMENT AND PREVENTION OF FITLE OF INVENTION: METHODS SUSSECTION
FILLS EFFERENCE: CLO37, 700354050
CURRENT APPLICATION NUMBER: US/11/183,253
CURRENT APPLICATION NUMBER: US/11/183,253
FRIOR APPLICATION NUMBER: DOS-04-26
PRIOR FILING DATE: 2005-04-26
PRIOR FILING DATE: 2003-10-29
FRIOR PELICATION NUMBER: US 60/421,987
PRIOR FILING DATE: 2003-10-29
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                                                                                  Sequence 2, Application US/11183253 GENERAL INFORMATION:
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SOFTWARE: PatentIn vergion 3.2
SEQ ID NO 2
LENGTH: 24
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ORGANISM: Artificial sequence
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ORGANISM: Artificial sequence
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GENERAL INFORMATION:
APPLICANT: Hartmann, Gunther
APPLICANT: Hartmann, Gunther
APPLICANT: Krieg, Arthur
TITLE OF INVENTION: Methods Related to Immunostimulatory
FILE REPERBENCE: 1039-70044US02
CURRENT APPLICATION NUMBER: US/11/179,008
CURRENT PILING DATE: 2006-09-27
PRIOR PILING DATE: 2006-09-27
PRIOR PILING DATE: 1999-09-27
NUMBER OF SEQ ID NOS: 169
SEQ ID NO 108
LENGTH: 24
APPLICANT: Hartmann, Gunther
APPLICANT: Hartmann, Gunther
APPLICANT: Bratzler, Robert L.
APPLICANT: Krieg, Arthur
TITLE OF INVENTION: Methods Related to Immunostimulatory;
TITLE OF INVENTION: Mothods Related to Immunostimulatory;
TITLE OF INVENTION: Mother, US/11/179,008
TITLE REPERBNCE: C1039,70044US02
CURRENT FILING DATE: 2005-07-08
PRIOR APPLICATION NUMBER: US 69/672,126
PRIOR APPLICATION NUMBER: US 60/156,147
PRIOR FILING DATE: 1999-09-27
NUMBER OF SEQ ID NOS: 169
SEQ ID NOS: 169
SEQ ID NOS: 169
SEQ ID NOS: 169
SEQ ID NOS: 24
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OTHER INFORMATION: Backbone has phosphorothioate linkages.
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Sequence 2, Application US/11021821

GENERAL INFORMATION:
APPLICANT: RAZ, EYAL
APPLICANT: RAZ, EYAL

ITILE OF INVENTION: USE THEREOF
ITILE OF INVENTION: USE THEREOF

TITLE OF INVENTION: USE THEREOF

CURRENT APPLICATION NUMBER: US/11/021;821

CURRENT PILING DATE: 2004-12-22

PRIOR PILING DATE: 2003-12-23

PRIOR PILING DATE: 2004-04-22

PRIOR FILING DATE: 2004-04-22

PRIOR FILING DATE: 2004-04-22

NUMBER: OF SEQ ID NOS: 26

SEQ ID NO 2

LENGTH: 24

LENGTH: 24
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                                                                                                                                                                                    Sequence 147, Application US/11179008
GENERAL INFORMATION:
APPLICANT: Hartmann, Gunther.
APPLICANT: Bratzler, Robert L.
APPLICANT: Krieg, Arthur
ITILE OF INVENTION: Methods Related to Immunostimulatory;
ITILE OF INVENTION: Methods Related to Immunostimulatory;
ITILE OF INVENTION: Nucleic Acid-Induced Interferon
FILE REPERENCE: C1039.70044US02
CURRENT APPLICATION NUMBER: US/11/179,008
CURRENT FILING DATE: 2005-07-08
PRIOR FILING DATE: 2006-09-27
PRIOR APPLICATION NUMBER: US 60/156,147
PRIOR PILING DATE: 1999-09-27
NUMBER OF SEQ ID NOS: 169
SOFTHARE: FastSEQ for Windows Version 3.0
SEQ ID NO 147
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LOCATION: (1)._.(24)
OTHER INFORMATION: Backbone has phosphorothioate linkages.
0; Indels
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0; Mismatches
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; OTHER INFORMATION: chemically synthesized
US-11-021-821-2
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ORGANISM: Artificial Sequence
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24; Conservative
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US-11-179-008-147
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366 bp mRNA linear EST 04-DEC-2002 mesophyll cell equalized cDNA Zinnia mRNA sequence.
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/tissue type="mesophyll cell"
/tissue type="mesophyll cell"
/tissue type="mesophyll cell"
/tone lib="ionia cultured mesophyll cell equalized cDNA"
/note="Vector: pGEM-T easy; cultured in tracheary element
differentiation-inductive medium"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zinnia elegans
Eukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids; campanulids; Asterales; Asteraceae; Asteroldeae; Heliantheae; Zinnia.

1 (bases I to 366)

Demura, T., Tashiro, G., Horiguchi, G., Kishimoto, N., Kubo, M., Matsuoka, N., Minami, A., Nagata-Hiwatashi, M., Nakamura, K., Okamura, Y., Sassa, N., Suzuki, S., Yazaki, J., Kikuchi, S. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Visualization by comprehensive microarray analysis of gene expression programs during transdifferentiation of mesophyll into xylem cells proc. Natl. Acad. Sci. U.S.A. 99 (24), 15794-15799 (2002) Contact: Taku Demura
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Morphogenesis Research Group
RIKEN Plant Science Center
1-7-22 Suehirocho, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9605
Fax: 81-45-503-9573
Email: demura@postman.riken.go.jp
Seq primer: M13 forward.
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Pred. No. 1.8e+02;
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/cultivar="Canary bird"
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AQ301649
BI091115
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LOCUS
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                 GenCore version
Copyright (c) 1993 - 2005
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/mol_type="mRNA"
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Eukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Spermatophyta; magnoliophyta; eudicotyledons; core eudicots;
Heliantheae; Zinnia.
Heliantheae; Zinnia.
Demura, T., Tashiro, G., Horiguchi, G., Kishimoto, N., Kubo, M.,
Matsuoka, N., Minami, A., Nagata-Hiwatashi, M., Nakamura, K.,
Okamura, Y., Sassa, N., Suzuki, S., Yazaki, J., Kikuchi, S. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /clone_lib="zinnia cultured mesophyll cell equalized cDNA"
/note="Vector: pGEM-T easy; cultured in tracheary element
differentiation-inductive medium"
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Mus musculus
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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This clone was obtained at our laboratory.
Seg primer: M13 forward.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 20.8; DB 1;
Pred. No. 1.8e+02;
0; Mismatches 2;
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0; Mismatches

    .367
    /organism="Zinnia elegans"
/mol_type="mRNA"
    /cultivar="Canary bird"

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/clone="21951"
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Conservative
22; Conservative
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NIH-MGC http://mgc.nci.nih.gov/.

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

National Institutes of Health, Mammalian Gene Collection (MGC)

National Institutes of Health, Mammalian Gene Collection (MGC)

Ontact: Robert Strausberg, Ph.D.

Contact: Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

Clone distribution: NCI-CGAP Clone distribution information

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High quality sequence stop: 604.
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NI HORSON LIC 669)

NI HORO Lip://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

Clonation Frourement: The Cepko Laboratory

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Preparation: Life Technologies, Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC Clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

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High quality sequence stop: 185.
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603359133F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:5366288 5',
mRNA sequence.
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/organism="Mus musculus"
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BH543978 14-DEC-2001 COGYN73TF BOGY Brassica oleracea genomic clone BOGYN73, genomic
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Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

rosids; eurosids II; Brassicales; Brassicaceae; Brassica.

I (bases 1 to 785)

Town, C.D., Van Aken, S., Utterback, T., Koo, H. and Fraser, C.M.

Whole genome shotgun sequencing of Brassica oleracea

Unpublished (2001)

Other GSSS: BOGYNJIR
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1 (bases 1 to 850)
Cameron, R.A., Mahairas, G., Rast, J.P., Martinez, P., Biondi, T.R., Swartzell, S., Wallace, J.C., Poustka, A.J., Livingston, B.T., Wray, G.A., Ettensohn, C.A., Lehrach, H., Britten, R.J., Davidson, B.H. and Hood, L.
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SP_1002_Al_B08_SP6 Strongylocentrotus purpuratus, purple sea urchin, sperm genomic BAC library Strongylocentrotus purpuratus genomic clone Plate=1002 Col=15 Row=C, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /clone="BOGYN73"
/clone lib="BOGY"
/note="Vector: pHoS1; Site 1: BstXI; 2-3 kb sheared
genomic DNA inserted into pHoS1 using BstXI linkers"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Strongylocentrotus purpuratus
Eukaryota, Metazoa, Echinodermata, Eleutherozoa, Echinozoa,
Echinoidea, Euechinoidea, Echinacea, Echinoida,
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Proc. Natl. Acad. Sci. U.S.A. 97 (17), 9514-9518 (2000)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tal: 301-838-3523
Fax: 301-838-0523
Fax: 301-838-0529
DNA is from a doubled haploid provided by Tom Osborn. Seg primer: Tell Class: Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 785;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 82.5%; Score 19.8; DB 8; Best Local Similarity 91.3%; Pred. No. 4.7e+02; Matches 21; Conservative 0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Brassica oleracea"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /mol_type="genomic DNA"
/strain="TO1000DH3"
/db xref="taxon:3712"
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                                                                                                                                        BH543978.1 GI:17795759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AZ183817.1 GI:8356192
                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: Chris Town
                                                                                                                                                                                       Brassica oleracea
                                                                                          survey sequence.
BH543978
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AZ183817
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DEFINITION
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RESULT 6
BH543978
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

En (bases 1 to 936)

NH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-romail.nih.gov

Tissue Procurement: Gilbert Smith, Ph.D.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.B. Consortium/LLNL at:

High quality sequence stop: 608.

Location/Qualifiers

Location/Qualifiers
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/lab_host="DH10B"
/clone lib="NCI CGAP_LU30"
/note="Cogan: lung; Vector: pCMV-SPORT6; Site_1: Not1;
Site_2: Sal1; transgenic model WNT-1, expression driven by
MMTV-LTR enhancer; Cloned unidirectionally. Primer: Oligo
dT. Library constructed by Life Technologies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BF142544 936 bp mRNA linear EST 24-OCT-2000
601789246F1 NCI_CGAP_Lu30 Mus musculus cDNA clone IMAGE:4020226 5',
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                   /tissue_type="retina"
/lab host="DH10B (phage-resistant)"
/lab host="DH10B (phage-resistant)"
/lab host="H10B (phage-resistant)"
/note="Gram: eye; Vector: pCMV-SPORT6; Site_1: Not1;
Site_2: Sal1; Cloned unidirectionally; oligo-dT primed.
Average insert size 3: 3 kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC Library."
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Investigator providing samples: Gilbert Smith, NHM"
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                                                                                                                                                                                                                                                      85.0%; Score 20.4; DB 4; Length 669; 95.5%; Pred. No. 2.7e+02; ... ive 0; Mismatches 1; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   85.0%; Score 20.4; DB 2; Length 936; larity 95.5%; Pred. No. 2.7e+02; Conservative 0; Mismatches 1; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               'organism="Mus musculus"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       clone="IMAGE:4020226"
/clone="IMAGE:5366288"
                                                                                                                                                                                                                                                                                                                                                                            237 GTGTTTTGTCGTTTCGTCGTT 216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 GTCGTTTTGTCGTTTTGTCGTT 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /mol_type="mRNA"
/strain="CZECH II"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 TCGTCGTTTTGTCGTTTTGTCG 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus (house mouse)
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BF142544.1 GI:10981584
                                                                                                                                                                                                                                                                                                  21; Conservative
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Best Local Similarity
Matches 21; Conserv
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Best Local S
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linear

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/clone="plate=1040 Col=4 Row=B"
/clone_lib="Strongylocentrotus purpuratus, purple sea
/clone_lib="Strongylocentrotus purpuratus, purple sea
/nothin, sperm genomic BAC library"
/note="Organ: sperm; Vector: BACe3.6; BAC Clones in B-Coli
DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 (bases 1 to 613)
Cameron, R. A., Mahairas, G., Rast, J. P., Martinez, P., Biondi, T. R., Sartzell, S., Wallace, J. C., Poustka, A. J., Livingston, B. T., Wray, G. A., Ettensohn, C. A., Lehrach, H., Britten, R. J., Davidson, B. H. and Hood, L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SP 1040 A2 C02 T7A Strongylocentrotus purpuratus, purple sea urchin, sperm genomic BAC library Strongylocentrotus purpuratus genomic clone Plate=1040 Col=4 Row=E, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A sea urchin genome project: Sequence scan, virtual map, and additional resources
Proc. Natl. Acad. Sci. U.S.A. 97 (17), 9514-9518 (2000)
20402566
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Strongylocentrotus purpuratus
Strongylocentrotus purpuratus
Echinodae, Metazoa, Echinodae, Eleutherozoa, Echinozoa,
Echinoidea, Euchinoidea, Echinocea, Echinoida,
Strongylocentrotidae, Strongylocentrotus.
                                                                                                                                                                       Score 19.8; DB 9; Length 916;
Pred. No. 4.7e+02;
0; Mismatches 2; Indels C
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                                                                           tissue type="mixture of kidney and spleen" /clone_lib="MSMg01 Mouse Male BAC Library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. 613
/organism="Strongylocentrotus purpuratus"
/mol_type="genomic DNA"
/db_xref="taxon:7668"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Cameron, RA, Davidson, EH, Hood, L
                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA
  /db_xref="taxon:57486"
/clone="MSMg01-129F06.TJ"
/sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Division of Biology 156-29
California Institute of Technology
Pasadena California 91125, USA
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Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                613 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: acameron@caltech.edu
Plate: 1040 row: E column: 4
Seg primer: 17
Class: BAC ends
                                                                                                                                                                                                                                                                         1 TCGTCGTTTTGTCGTTTTGTCGT 23

11 TCGTCGGTTTGTTGTTGTCGT 333
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Best Local Similarity 91.3%;
Matches 21; Conservative
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Fax: (626) 793-3047
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S. Hattori, M., Toyoda, A., Noguchi, H., Kojima, T. and Sakaki, Y.

Direct Submission

L. Submitted (17-NOV-2003) Masahira Hattori, The Institute of Physical
and Chemical Research (RIKEN), Genomic Sciences Center (GSC);

1-7-22 Suehiro-chou, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
(E-mail: hattori@gsc.riken.jp, URL: http://hgp.gsc.riken.go.jp/,
Tel: 81-45-503-9111, Fax: 81-45-503-9170)

Clones are derived from the mouse BAC library MSMg01. For BAC
Clones are derived from the mouse BAC library MSMg01. For BAC
library availability, please contact Kuniya Abe (abe@rtc.riken.jp).
Tsukuba Institute of Physical and Chemical Research (RIKEN) 3-1-1

Koyađai, Tsukuba, 305-0074 Japan
phone: 81-298-36-9189, fax: 81-298-36-9199
                                                                                                                                                                                                                                                                                                            /mol_type="genomic DNA"
/db xref="taxon:668"
/clone="Plate=1002 Col=15 Row=C"
/clone lib="Strongylocentrotus purpuratus, purple sea urchin, sperm genomic BAC library"
/note="Organ: sperm; Vector: BACe3.6; BAC Clones in B-Coli DH108"
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Mus musculus molossinus DNA, clone:MSMg01-129F06.TJ, genomic survey
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Mus musculus molossinus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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BAC end Sequences of Library MSMg01
Unpublished
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0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 850;
                                                                                                                                                                                                                                                                                               /organism="Strongylocentrotus purpuratus"
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    .916
    /organism="Mus musculus molossinus"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ch 82.5%; Score 19.8; DB 8; 1 Similarity 91.3%; Pred. No. 4.7e+02; 21; Conservative 0; Mismatches 2;
Division of Biology 156-29
California Institute of Technology
Pasadena California 91125, USA
Tel: (626) 395-8421
Fax: (626) 793-3047
Email: acameron@caltech.edu
Plate: 1002 row: C column: 15
Seq primer: SP6
Class: BAC ends
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/sub_species="molossinus"
                                                                                                                                                                                                                         High quality sequence stop: 850.
Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AG337367.1 GI:47910677
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AUTHORS
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BI748907
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/lab.host="DHIDB"
/clone_lib="CSEQRBN22"
/note="Vector: pBluescript II KS(+); Site 1: EcoRI;
Site 2: Not1: This normalized library was constructed from
I million independent clones. CDNA synthesis was initiated
using an oligo(dT) primer, using methylated C in the first
strand synthesis reaction. Following this first strand
reaction, double-stranded cDNA was blunted, ligated to
Not1 adapters, digested with EcoRI, size-selected, and
cloned into the Not1 and EcoRI compatible sites of a
custom modified MCS of the pBluescript (KS+) vector. The
library was normalized in 2 rounds using conditions
adapted from Soares et al., PNAS (1994) 91: 9228-9232 and
Bonaldo et al., Genome Research 6 (1996): 791, except that
used."
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B1451665
B1451665.1 GI:15276372
                                                                                                                                                          Gallus gallus
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
Phasianinae; Gallus.
1 (bases 1 to 705)
Boardman, P.E., Sanz-Ezquerro, J., Overton, I.M., Burt, D.W., Bosch, E., Fong, W. T., Tickle, C., Brown, W. R.A., Wilson, S.A. and Hubbard, S.J.
A Comprehensive Collection of Chicken cDNAs
                     BU475840 705 bp mRNA linear EST 30-NOV-2002 603469578F1 CSEQREN22 Gallus gallus clone ChEST343120 5', mRNA
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/tissue_type="Chondrocytes isolated from growth plate
cartilage"
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                                                                                                                                                                                                                                                                                                                                                                                                                Department of Biomolecular Sciences
University of Manchester Institute of Science and Technology
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/organism="Gallus gallus"
/mol_type="mRNA"
/strain="Layer and broiler"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PO Box 88, Manchester, M60 1QD, UK
Tel: 01612008930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fax: 01612360409
Email: Simon.Hubbard@umist.ac.uk.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 db_xref="taxon:9031"
clone="ChEST343120"
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BU475840.1 GI:25969417
                                                                                                                                           Gallus gallus (chicken)
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Heterodera glycines

Heterodera glycines

Eukaryota; Metazoa; Nematoda; Chromadorea; Tylenchida; Tylenchina;

Eukaryota; Metazoa; Nematoda; Chromadorea; Tylenchida; Tylenchoidea; Heteroderidae; Heteroderidae; Heteroderiae; Heterodera.

Tylenchoidea; Heteroderidae; Heteroderinae; Heterodera.

(Dases I to 317)

Rocarter, J. Clifton, S., Chiapelli, B., Pape, D., Martin, J., Wylie, T., Dante, M., Ritter, E., Bennett, J., Rucaba, T., Theising, B., Wylie, T., Gibbons, M., Ritter, E., Bennett, J., Rucaba, T., Theising, B., Underwood, K., Steptoe, M., Allen, M., Person, B., Swaller, T., Harvey, N., Schuck, R., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R., School, E., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, Nematode EST Project, 1999

Au Unpublished (1999)

Contact: McCarter JP

The Washington Univ. Nematode EST Project, 1999

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA

Tel: 314 286 1800

Fax: Al 286 1800

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The library was constructed by Brandi Chiapelli and Dr.
The library was constructed by Brandi Chiapelli and Dr.
James McCarter at Washington University, St. Louis. The
CDNA was made by using Dynabead oligo-dT priming (Dynal).
PCR based library using a modified protocol from the SMART
PCR cDNA Synthesis Kit from Clontech. Directionally cloned
into the UDG sites of pAMP1. Nematodes are the OP25
strain. Frozen J2 nematodes were provided by Dr. Rick
Davis of North Carolina State University"
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Heterodera glycines
Heterodera glycines
Bukaryota; Metazoa, Nematoda, Chromadorea; Tylenchida; Tylenchoidea; Heteroderidae; Heteroderinae; Heterodera.

1 (bases 1 to 322)
MCGarter, J., Cliftcon, S., Chiapelli, B., Pape, D., Martin, J.,
Mylie, T., Dante, M., Marra, M., Hillier, L., Kucaba, T., Theising, B.,
Bowers, Y., Gibbons, M., Ritter, E., Bennett, J., Franklin, C.,
Tsagareishvili, R., Ronko, I., Kennedy, S., Maguire, L., Beck, C.,
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Pred. No. 8.2e+02;
0; Mismatches 3; Indels
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Best Local Similarity 87.5%;
Matches 21; Conservative 0
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1 TCGTCGTTTTGTCGTTTTGTCGTT 24
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Best Local Similarity
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The library was constructed by Brandi Chiapelli and Dr.
James McCarter at Washington University, St. Louis. The
CDNA was made by using Dynabead oligo-dT priming (Dynal).
PCR based library using a modified protocol from the SMART
PCR CDNA Synthesis Kit from Clontech. Directionally cloned
into the UDG sites of pAMP1. Nematodes are the OP25
strain. Frozen J2 nematodes were provided by Dr. Rick
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Malus x domestica (cultivated apple)
Malus x domestica
Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots;
rosids, eurosids I; Rosales, Rosaceae, Maloideae, Malus.
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Aldwinckle, Wodkin, L., Liu, L., Gasic, K., Gonzales, O., Hernandez, A., Aldwinckle, H., Malnoy, M., Carroll, N., Goldsbrough, P., Orvis, K., Clifton, S., Pape, D., Marra, M., Hillier, L., Martin, J., Wylie, T., Dante, M., Theising, B., Bowers, Y., Gibbons, M., Ritter, E., Ronko, I., Asagareishivii, R., Kennedy, S., Waterston, R. and Wilson, R. Apple Functional Genomics grant - NSF 0321702
                                                                                                                                                                                                                                                                                                                                               The library was constructed by Brandi Chiapelli and Dr. James McCarter (bchiapel@watson.wustl.edu & jmccarte@watson.wustl.edu) Washington University, St. Louis. DNA Sequencing by: Washington University Genome Sequencing Center St. Louis.
High quality sequence stop: 310.
Underwood,K., Steptoe,M., Allen,M., Person,B., Swaller,T.,
Harvey,N., Schurk,R., Kohn,S., Shin,T., Jackson,Y., Cardenas,M.,
McCann,R., Waterston,R. and Wilson,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol_type="mRNA"
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/lab_host="bH108"
/clone_lib="Heterodera glycines J2 pAMP1 v8 Chiapelli
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                                                                                                                                         Contact: McCarter Jp
The Washington Univ. Nematode EST Project, 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1800
Email: estewatson wustl.edu
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Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
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                                                                                      The Washington Univ. Nematode EST Project, 1999
Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        'organism="Heterodera glycines"
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/ALDIONE-INDER-MARTE AND TABLESTEAL IN (1) (ALDIONE-INDER-MARTE)

//ALDIONE-INDER-MARTE AND TABLESTEAL IN (ALDIONE-INCECTOR)

Site 2: ECOCKII; TOCAI RNA was extracted separately from each stage (young fruitlet (12cm dia.), maturing fruit I camed and the stage user included the colony from from the colony from the col
Library materials provided by: Schuyler S. Korban Library constructed by: K. Gasic Library sequenced by: Washington University Genome Sequencing Center Wash BST name: aaj94f01.yl Seq primer: -40UP from Gibco.
                                                                                                                                                                                                                                                                                                                                                                                                                                /lab_host="DH10B ampicillin resistant"
                                                                                                                                                                                                                                                                              /organism="Malus x domestica"
                                                                                                                                                                                                                                                                                                                                                         /db_xref="taxon:3750"
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                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                      /mol_type="mRNA"
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Gaps

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Indels

80.0%; Score 19.2; DB 7; Length 330; 87.5%; Pred. No. 8.2e+02;

0; Mismatches

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CC084807.1 GI:29936262
GSS.
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Job time : 8402 secs
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S McCarter, J., Clifton, S., Chiapelli, B., Pape, D., Martin, J.,

Bowers, Y., Clifton, S., Chiapelli, B., Pape, D., Martin, J.,

Bowers, Y., Gibbons, M., Marra, M., Hiller, L., Kucaba, T., Theising, B.,

Bowers, Y., Gibbons, M., Steller, E., Bennett, J., Franklin, C.,

Tagareishvili, R., Ronko, I., Kennedy, S., Maguire, L., Beck, C.,

Underwood, K., Steptoe, M., Allen, M., Person, B., Swaller, T.,

Harvey, N., Schurk, R., and Wilson, R., Jackson, Y., Cardenas, M.,

McCann, R., Waterston, R. and Wilson, R., Jackson, Y., Cardenas, M.,

McCann, R., Waterston, R. and Wilson, R.,

The Washington Univ. Nematode EST Project, 1999

Washington University School of Medicine

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Email: est@watson.wustl.edu
The library was constructed by Brandi Chiapelli and Dr. James
McCarter (bchiapel@watson.wustl.edu & jmccarte@watson.wustl.edu) at
Mashington University, St. Louis. DNA Sequencing by: Washington
University Genome Sequencing Center St. Louis.
Putative full length read
The vector to vector length is 336.
Location/Qualifiers
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The library was constructed by Brandi Chiapelli and Dr.
The library was constructed by Brandi Chiapelli and Dr.
Dr. dames McCarter at Washington University, St. Louis. The
CDNA was made by using Dynabead oligo-dT priming (Dynal).
PCR based library using a modified protocol from the SMART
PCR cDNA Synthesis Kit from Clontech. Directionally cloned
into the UDG sites of pAMP1. Nematodes are the OP25
strain. Frozen 12 nematodes were provided by Dr. Rick
Davis of North Carolina State University"
                                                                                                                BI396890 335 bp mRNA linear BST 08-AUG-2001 ro63b08.y3 Heterodera glycines J2 pAMP1 v8 Chiapelli McCarter Heterodera glycines cDNA 5', mRNA sequence.
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Heterodera glycines
Bukaryota, Metazoa, Nematoda, Chromadorea, Tylenchina,
Tylenchoidea, Heteroderidae, Heteroderinae, Heterodera.
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|lab_host="DH10B"
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/organia="Heterodera glycines"
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/db_xref="taxon:51029"
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  88 TCGTCGTTTCGTCGTTCCGTCGTT 111
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ilarity 87.5%;
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Tel: 301-838-3543
Exar: 301-838-0208
Email: enta@figr.org
Library was provided by Susan Brown and Dennis Knudson at Colorado State University.
                                                                                                                                    Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Aedes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gape
                                                                                                                                                                                                                                                                                                                                                                                      Loftus, B., Shetty, J., Severson, D., Brown, S. and Knudson, D. Loftus, B., Shetty, J., Severson, D., Brown, S. and Knudson, D. End sequencing of Aedes aegypti BACs Unpublished (2003) Other_GSSs: CSU-K33r.16J24.T7 Contact: Brendan Loftus Department of Eukaryotic Genomics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
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Aedes aegypti (yellow fever mosquito)
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                                                                                                                                                                                                                                                                                                                                                  (bases 1 to 437)
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Class: BAC ends
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